FY 96 WORK PLAN MONITORING, RESEARCH, AND GENERAL RESTORATION PROJECTS DESCRIPTION OF PROJECTS AND TRUSTEE COUNCIL ACTION



EXXON VALDEZ OIL SPILL TRUSTEE COUNCIL ADMINISTRATIVE RECORD

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<u>Cluster</u>
Pink Salmon Projects 1
Herring Projects
Sound Ecosystem Assessment (SEA)
SEA Program Related Projects
Sockeye Salmon Program
Cutthroat and Dolly Varden Trout Projects
Marine Mammal Program
Nearshore Ecosystem Projects
Seabird/Forage Fish Ecosystem Project
Seabird/Forage Fish Related Projects
Subsistence Projects
Archaeological Resources
Reducing Marine Pollution
Habitat Improvement
Information Support
Research Facilities
Summary of Trustee Council Action

Acronyms	
ABR	

ABR	ABR, Inc., Environmental Research and Services	OSU	Oregon State University
ANHSC	Alaska Native Harbor Seal Commission	PES	Petroleum Environmental Services, Inc.
Alutiiq HF	Alutiiq Heritage Foundation	PWS Econ DC	Prince William Sound Economic Development Corporation
Chugach OSIR	Chugach Oil Spill Impacted Region Communities Consortium	PWSSC	Prince William Sound Science Center
Chugach HF	Chugach Heritage Foundation	RCAC	Regional Citizens' Advisory Council
Chugach RRC	Chugach Regional Resource Commission	TXAM	Texas A & M University
Ck Inl Fish DC	Cook Inlet Fisheries Development Corp.	UBC	University of British Columbia
MBC	MBC Applied Environmental Sciences	UM	University of Montana
NRC	Natural Resources Consultants, Inc.	UW/UCD/SFU	Univ. of Washington/Univ. of California, Davis/Simon Fraser Univ.

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Proj. No.	Title	Lead Agency Pr	FY 96 roposer Request		FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
	on Projects mmendation: The pink salmon cluster budget a sts that knowledgeable PAG members be invited		\$3,597 ould be examined in an		-	\$3,325.3 G supports the	\$2,558.8 Executive L		3 \$11,183.2 Forts to bring		\$1,284.6 to examine the pr	\$1,957.7 ogram,
96076	Effects of Oiled Incubation Substrate on Straying and Survival of Wild Pink Salmon	NOAA N	NOAA \$393.	8 \$393.8	\$393.8	\$715.0	\$525.0	\$260.0	\$1,893.8	2nd. yr. 5yr. project	\$107.7	\$286.1
developmen salmon. Co straying will field studies	t examines the effects of oil exposure during em- ter on straying, marine survival, and gamete viab ontrolled experiments relating oil exposure to pi- l determine the role of oil and other factors on s of straying in PWS after the spill can be interp- ance of straying on management and restoration	ility of pink nk salmon traying so that reted, and so that	Chief Scientist's C This is a technical straying of pink sa This study could b 95191B establishe genetic damage ha methods for consid Since this project i following the return to continue.	ly excellent prop lmon in Souther e a crucial part s heritable gener as not been estab dering straying v is being initiated	astern Alaska d of the overall pi tic damage from lished, and then with respect to r l in FY 95, it sh	te to exposure nk salmon dan o oil exposure. re appear to be nanagement st ould be evalua	to oil. nage if However, better rategies. ated	Defer per genetics/ evaluate project sl increased interpret	straying/stoo degree of straying is straying is ation of EV(r review of all pin ck idenfitication quarter raying after FY 96 out or continue. T an effect of oil exp OS damage assess	k salmon proposal uestions (fund inte- returns to decide his project could e posure, which will nent results. Pote s for other pink sa	rim). If funded, whether the stablish that aid ntial for future
96093A	Restoration of PWS Pink Salmon by Diversion of Harvest Effort: Quantitative Genetic Assessment of Early-Returning Pink Salmon Broodstock		oker/UAF \$111.	9 \$111.9	\$111.9	\$198.4	\$211.7	\$171.9	\$693.9	1st yr. 5yr. project		\$111.9
reduce fishin interbreed w stock selecti genetics to a stock selecti	nt of early-returning broodstock at hatcheries ming on injured stocks. However, a risk is that ear rih local salmon and hurt their fitness. Risk min on or broodstock management. This research un assess 1) genetics of run timing in donors (predi- on and broodstock management) and 2) fitness of (exposes loss by laboratory breeding experimen-	thy stocks might ght be reduced by ses quantitative cts effectiveness of loss from	Chief Scientist's C Rated more highly fully. This is a tec measure the streng salmon population hybridization of ea the best in the wor management of pi	than 96076, as chnically excelle gth of the genetic s and whether of arly and late-run rld. The project	nt and feasible ; c basis for stray, ut-breeding dep pink salmon. 1 will eventually	proposal that y ing in discrete ression could investigators a	vill pink result from re among	Defer per genetics/ pink salm project w salmon. determin localities whether is stocks an	straying/stoo ion life-cycl ill estimate In combinate e mechanism interact ger nanagemen d whether it	r review of all pin ek identification quest (4 years). Deter the genetic variable tion with 96093B- ns by which pink so the tically. This infor- t strategies should t is possible to dev	k salmon proposal nestions. If funder rmine future fundi ility of run timing BAA, the two proj salmon at different ormation is essenti address a single o elop early-run hato depressed wild sto	l, fund fo ng then. This in pink ects will spawning al to determine r multiple chery stock, the

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96093B	Restoration of PWS Pink Salmon by Diversion of Harvest Effort: Population Genetic Assessment of Gene Flow from Early Return Stock	ADFG	Smoker/UAF	\$121.0	\$121.0	\$121.0	\$238.0	\$228.1	\$134.2	\$721.3	1st yr. 5 yr. project		\$121.0
reduce fishi might stray risk can be run pink sa local stream	nt of early-returning broodstock at hatcheries mig ng on injured stocks. However, a risk is that early and interbreed with local salmon and reduce their estimated by measuring gene flow experimentally mon will be tagged with a natural gene marker and simulating straying. The effect will then be direct tions by measuring the genetic tag in the test streat rs.	y stock fish r fitness. The . Potential ea nd planted in ectly estimate	y This is a about ge e will esta arly William a influenc xd	ne flow amou blish whethe Sound. The	superior prop ng separate st r there are or se are very si	osal that will ans treams in Prince ' ily a few or many gnificant and bas ture pink salmon	William Sour stocks in Pri ic questions t	nd. This nce that will	Defer per genetics/ life-cycle estimate with 960 different essential single or	straying/stoc s (4 years). the genetic e 93A-BAA, w spawning lo to determine multiple sto stock, the ha	r review of all pir r k idenfitication of Determine future effects of "straying vill determine me calities interact g whether manage cks and whether	nk salmon proposal questions. If funded e funding then. This g" in pink salmon. echanisms by which genetically. This in ement strategies shi it is possible to dev vill not compete wit	d, fund for is project v In combination n pink salmon at formation is ould address a elop early-run
96093C	Restoration of Prince William Sound Pink Salmon by Diversion of Harvest Effort	ADFG	PWSAC	\$647.0	\$727.4	\$727.4	\$933.9	\$860.8	\$1,271.9	\$3,794.0	1st yr. 7 yr. project		\$727:4
Abstract				cientist's Con						Council Acti	-		
contributed of pink saln mixed stock thereby dela hatchery pro-	a egg mortality attributed to oiling of anadromous to a reduction in adult pink salmon returns. Natur on are harvested with large numbers of hatchery fisheries, which may limit escapement to damage y recovery. This project will evaluate the feasibil oduction to reduce exploitation of injured wild sto focus on changing the location and timing of hat S.	ral populatio pink salmon ed streams an ity of change cks. Specific	ns 96093A in harvest of d does not s in impleme involved s in has emp proposal	and B, would effort from in do an adequa ent such a pro , which are n hasized remo needs furthe	d establish a j jured wild sto ate job of tyir ogram, nor do nany. Previo ote releases ra er evaluation i	ific effort, and in program leading to ocks. However, it ing together all of oes it sufficently e us guidance from ther than change in the context of to ck identificaton p	to the diversion the project dest the elements explain the rise the Trustee s in run timin the fall review	on of scription needed to sks Council ng. This	Defer per genetics/s	nding furthe straying/stoc	r review of all pin k identification q	nk salmon proposal: juestion.	s addressing

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96139A1	Salmon Instream Habitat and Stock Restoration - Little Waterfall Barrier Bypass Improvement	ADFG	ADFG	\$55.0	\$55.0	\$55.0	\$35.0	\$15.0	\$55.0	\$160.0	2nd yr. 4 yr. project	\$55.0	
the barrier b whether the project will i	al will provide for continuation of Project 95139A ypass improvement at Little Waterfall Creek. It improvements are successful once construction is increase spawning habitat use by pink and coho se salmon production in ensuing years.	vill evaluate complete. T	This pro enhance	cientist's Com oposal is techn e pink salmon	nically sound	and its implement	ntation will li	kely	Fund. Pr thus prov	ide addition	nded to increase	available spawning salmon for harvest	
96139A2	Spawning Channel Construction Project Port Dick Creek, Lower Cook Inlet	ADFG	ADFG	\$223.1	\$230.5	\$230.5	\$37.0	\$23.2	\$30.0	\$320.7	1st yr. 5 yr. project	\$230.5	
pink and chu spawning ha	d Port Dick Pink Salmon Spawning Channel wou im salmon stocks. The proposed project would in bitat available in Port Dick Creek by restoring for y excavating down to stable water sources.	crease the	d Impleme producti	ion, and conta	is proposal w ins plans to 1	ill likely enhance monitor performa proved in 1995.			Fund. Pr thus prov	ide addition	nded to increase	available spawning n salmon for harves spill.	
96139C1	Montague Riparian Rehabilitation Monitoring Program	USFS	USFS	\$43.1	\$9.7	\$9.7	\$0.0	\$0.0	\$0.0	\$9.7	3rd yr. 3 yr. project	\$9.7	
granted to co areas on Mon spawning an flows and str included the to continue e occurred and	is a continuation of 94139 and 95139C. In FY 94 onstruct 25 to 30 structures in streams flowing the ntague Island. These structures were designed to d rearing habitat, prevent erosion, and help restor eam features that existed prior to logging. The 1 improvement of 20 acres of riparian vegetation. valuation of structures, repair any damage that m assess changes in the aquatic habitat, stream cha The riparian vegetation work will also be evaluate	ough clearcut improve fish re the natural 994 work also This project i ay have unnels, and	s This pro habitat c evaluation	on Montague	ne third year of Island. The p	of a project that is proposal is for mo and 1995, which	onitoring and			Council Acti		nitor results of a pre	wious EVC [~]

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96139C2	Salmon Instream Habitat and Stock Restoration - Lowe River and Valdez Arm Drainages	ADFG	ADFG	\$174.6	\$174.6	\$0.0				\$0.0			
restoration p continues a environmen	would provide an in-depth evaluation of in-streat possibilities in the Lowe River and Valdez Arm d project halted when concerns were raised during tal assessment to construct habitat improvements um and pink salmon.	rainages. It review of an	There a enhance	ed production	dentified met of fish in the	thods in the prop Lowe River. Th penefits of the pro	erefore, it wa			Council Actionity in the second secon		•	
96139D	Supplemental Monitoring for the Proposed Spawning Channel Construction Project, Port Dick Creek, Lower Cook Inlet	ADFG (Coble Geotech.	\$9.2	\$9.2	\$0.0				\$0.0			uluu , ta
Chum Salmon stock	roject (96139A2) to construct the proposed Port 1 on Spawning Channel would restore the wild pin ts to pre-spill levels. This project would provide for that project.	k and chum		cientist's Com ed jointly with		ame recommend	lation.			Council Action nd as separa	_	tivity funded as part o	f 96139C
96179	Relationships Between Stream Habitat and Stream Classification Within Prince William Sound	USFS	USFS	\$218.1	\$218.1	\$0.0				\$0.0			
stream. The for in-stream quantitative rearing habi	es represent similar hydrological and geological n y should also be relatively good descriptions of w n fish habitat. Channel type interpretations shoul y replicable measure for presence of in-stream sp tat. This project will further the understanding o s between habitat and production of juvenile salm	what is present d provide a wawning and f the	Althoug	cation system,	id proposal to	o continue develo is not justified in			<u>Trustee C</u> Do not fur	bouncil Actic	<u>n</u>		

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96186	Coded Wire Tag Recoveries From Pink Salmon in Prince William Sound	ADFG	ADFG	\$260.5	\$254.9	\$254.9	\$260.5	\$260.5	\$85.0	\$860.9	7th yr. 10yr. project	\$254.9	
recovered ta protect inju more precis	t funds recovery of coded-wire tags in PWS pink ags are used to help ADFG manage the commerce red stocks. The project is part of a program to the in-season tool, otolith marking, with a permar- the Trustee Council. (This project was formerly	cial fishery to cansition to a cent funding source	This pr mass n of TM		ary to suppor project shoul	t the transition to d be discontinue			Fund. Fu overlap w provides location o especially	vith Otolith information of commerci v important	on funding, as recomr Thermal Marking that allows manag al harvest to protect for stocks in the has ble continued fishing	Project (96188). gers to vary the tir ct injured wild sto ard-hit Southwest	The project ning and ocks. This is
96188	Otolith Thermal Mass Marking of Hatchery Reared Pink Salmon in Prince William Sound	ADFG	ADFG	\$95.2	\$93.2	\$93.2	\$100.5	\$100.5	\$48.8	\$343.0	2nd yr. 6 yr. project	<i>\$93.2</i>	
separation t used by fish overharvest this purpose	t will develop otolith mass marking as an in-sear ool for pink salmon in PWS. In-season stock co ery managers to protect damaged wild pink salm in mixed-stock fisheries. Coded-wire tags are p in the Sound. Transitioning to otolith marking e precision. (This project was formerly number	mposition data is non stocks from resently used for will reduce costs	This is innova Trustee	tive, cost effect	on of a previo	ously approved p bably one of the r ink salmon mana	nost effective	steps the	Fund. Of for provid Future ye with Cod technique	ling the info ars' funding ed Wire Tag	ng is a more accur ormation now obtain as recommended (Project 96186). a transition to non-	ined through code 1, includes two ye Funding for appli	d wire tags. ars of overlap ication of this
96190	Construction of a Linkage Map for the Pink Salmon Genome	ADFG A1	lendorf/UM	\$240.0	\$240.0	\$240.0	\$250.0			\$490.0	1st yr. 5yr. project		\$240.0
analyzing the The ability to the thorough genetic dame including estimation	build construct a detailed genetic linkage map for the genetic transmission of several hundred DNA to genetically map the location of oil-induced less in identification, description, and understanding tage. This research will also aid other pink salm stimation of straying rates, description of stock s arine survival has a genetic basis.	polymorphisms. ions will allow of oil induced on studies	This pr salmon outcom	management. le of the labora	allenging an Implementa tory oil expos	d potentially wo tion of this proje sure experiments ther related prop	ct might awai (95191A & H	t the 3). It	Defer per genetics/s	traying/stoc	on r review of all pink k idenfitication qu pending results of	estions. Tentativ	ely consider not

Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December	
96191A	Oil-Related Embryo Mortalities in PWS Pink Salmon Populations	ADFG	ADFG	\$474.6	\$474.6	\$474.6	\$407.0	\$246.0	\$0.0	\$1,127.6	5th yr. 7 yr. project	\$389.5	\$85.1	
inhabiting of to continue provide labo occurrence	abryo motalities were detected in populations of p biled streams following the oil spill. The purpose to monitor the recovery of pink salmon embryos pratory verification of the field results, and verify of genetic damages. Results of these studies may heritable injury in fish exposed to chronic or ac	e of this project is in the field, y and identify the y provide the firs	The as is 1994 r stream e in the st latest g il in the genetic have b were ex	esult that no su s for even-year genome of inju genetic techniq many possible cs should not g een reviewed in	abryo surviva rvival different pink salmor red pink salmor ues, may not locations for o forward in n the fall. If do not produ	I in the field is we ence exists between the However, the second second be able to detect such mutations. FY 96 until the re the adults from the accession of the second second the second seco	en oiled and u earch for mic bloying a vari these very ran The molecul esults from F ne 1994 broom	noiled crolesions ety of the re events ar Y 95 I year that	Fund ong molecula pink saln questions recovery	r genetics co non proposal This projec	nent of project. I pomponent of projects addressing generation t monitors potent and explores t	Defer decision on fi ect pending further etics/straying/stock ial on-going injury the hypothesis that	review of all idenfitication to and	2
96191B	Injury to Salmon Eggs and Pre-emergent Fry Incubated in Oiled Gravel (Laboratory Study)	NOAA	NOAA	\$169.3	\$169.3	\$169.3	\$75.0	\$88.0	\$0.0	\$332.3	5th yr. 7 yr. project	\$72.8	\$9 6.5	
reproductive salmon whi long-term e underway a focuses on i	t will determine if oil can cause heritable damage e capacity. This requires culturing three generation ch provides opportunities to examine other imme ffects of incubating in oiled gravel. The project and oil exposures were completed in 1994. This F ncubating eggs from maturing adults in 1995 and second generation for release in Spring 1996.	tions of pink ediate and already is FY 96 proposal	This w remain course adults	ing questions a of recovery and from the 1994	ly essential to about the nat d the persiste brood year th	o continue in orde ure of the injury to once of injury. Ho nat were exposed uld be reduced ap	o pink salmo wever, if the as eggs do no	n, the returning	Defer per genetics/s Tentative field seas	straying/stoc ly consider f on. Budget mon from F	t review of all pin k identification q funding continger will be reduced if	k salmon proposals uestions (fund inter at on review of resu insufficient number is is a laboratory co	rim.) Its of FY 95 ers of net-pen)
96194	Pink Salmon Spawning Habitat Recovery	NOAA	NOAA	\$182.5	\$182.5	\$182.5	\$75.0	\$0.0	\$0.0		1st yr. 2 yr. project		\$182.5	
	would examine the level of oil contamination in 1989-90 and in 1995. Analyses would allow a be		This is		udy that will	likely tie actual o mbryo mortalitie		s of oil in	Defer. C	Council Action Consider delay toject will be	— ying project one y	vear. Samples are in al once results of 96	n freezer and 191 are	

the oil exposure in 1989 and 1995 and would complement the elevated salmon egg mortalities measured since 1989. This study would also synthesize information from other Trustee studies to determine the likelihood of damage from oiled stream gravels. If restoration of contaminated stream gravels were contemplated, knowing the contamination levels in 1989 and 1995 would be valuable, as would the synthesis effort of prior studies.

FÝ 96 WORK PLAN -- TRUSTEE COUNCIL 8/25/95 ACTION

illuminate the role of direct exposure to oil in potentially causing the observed multi-year effects in pink salmon embryos.

available. This project ties actual concentrations of oil as obtained from field samples in 1989 and 1990 in pink salmon streams to embryo mortalities and illuminates the role of direct exposure in potentially causing the observed multi-year effects in pink salmon embryos.

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96196	Genetic Structure of Prince William Sound Pink Salmon	ADFG	ADFG	\$178.5	\$178.5	\$178.5	\$0.0	\$0.0	\$0.0	\$178.5	3rd yr. 3 yr. project	\$71.3	\$107.2
and sublethat population s of these inju management the genetic s	ork found that wild-stock pink salmon suffered bo al injuries as a result of the oil spill. An understa structure of pink salmon in PWS is essential to as tries on a population basis and to devise and impl t strategies for restoration. This project is design structure of populations of wild pink salmon inha- t was formerly numbered 95320D.)	nding of the sess the impact ement ed to delineate	This is salmon conduct experim	in Prince Wil ed by well-qu	ar of this work liam Sound. alified geneti- fied in order t	k on the genetic This is a good p cists. The propo to interpret the h	proposal being osed breeding	-	Fund clos further re genetics/ to determ salmon.	view of all straying/sto ine geograp In combina	rrent work. Defer pink salmon propo ck idenfitication q phic extent of gene tion with 96093A	new data gathering osals addressing uestions. This pro- tic differences in P and B, this inform for single vs. mult	ject is designed WS pink ation will e
Herring Pro	njects nmendation: Fully fund herring projects and, wh	ere possible, e	nhance funds (t	\$1,581.8 hat is, fund de	\$1,432.2 eferred projec		\$1,154.9 and other ques	\$1,013.5 tions are res		2 \$4,769.8 chief Scie		\$787.1).	\$645.1
96074	Herring Reproductive Impairment	NOAA	NOAA	\$347.7	\$200.0	\$200.0	\$69.5	\$0.0	\$0.0	\$269.5	3rd yr. 4 yr. project	\$200.0	
using field a for reproduc determine if project began	vill examine long-term oil impacts on herring due nd laboratory measurements. The field componentive impacts in PWS stocks and the laboratory por exposure of various life stages to oil causes gene in following the crash of populations in PWS and acts focused on causes of the crash and prospects	ent will search rtion will tic damage. Th represents one	Most of and 199 add to o nis recomm	The remai ur knowledge	ectives of the ning work in of toxicity of funding for t	work have been 1996 is costly re f oil to herring re his project with	elative to what eproduction.	t it will (therefore	Fund clos of field p	ortion. Pur	e oil-exposure labo	ratory portion and understand possibl	continuation e injury to

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Proj. No.	Title	Lead Agency Pro		FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December	
96162	Investigations of Disease Factors Affecting Declines of Pacific Herring Populations in Prince William Sound, AK	ADFG UW/U	CD/SFU	\$635.0	\$635.0	\$635.0	\$510.6	\$461.7	\$0.0	\$1,607.3	3rd yr. 5 yr. project	\$204.1	\$430.9	
(VHS) and J in the diseas PWS will be status. Spec mortality, bl organisms a petroleum h	boratory studies will focus on Viral Hemorrhagic <i>Chthyophonus hoferi</i> , a pathogenic fungus, to deter a and mortality observed in PWS herring since 19 monitored three times per year for signs of disease ific pathogen-free herring will be used to determine ood chemical changes and pathogenicity produced lone and in combination with exposure to stressor ydrocarbons, temperature and crowding. (This prime mbered 95320S.)	rmine their role 93. Herring in e and immune the degree of by these s such as	relationship although the questions at for the ques herring to o laboratory e crashes will	nnovative a between o e time betw bout cause a stions being bil and chal experiments l be clarifie	and thorough il exposure a veen the spill and effect. N s addressed b lenge by VH s, the role of d. Also, lean	approach to inve- nd manifestation and the populati levertheless, then y this work. By e S virus and <i>Ichth</i> these pathogens in ning more about erring manageme	of disease in on crashes ra e is a plausib exposing path <i>yophonus</i> in in the popula the circumst	a herring, uises le basis nogen-free tion	Defer unt designed and betwee	to investiga en disease a f recovery i	on sults are evaluated (te potential link bet and the population s important for rest	ween oil exposur decline in PWS.	e and disease Understa	
96164	Pacific Herring Program Leadership	ADFG AI	DFG	\$49.2	\$49.2	\$ 49. 2	\$49.2	\$49.2	\$49.2		1st yr. 4yr. project	\$49.2	, tau	- - -
review of pro herring in the components	of this project is to enhance coordination, integra ojects that are designed to study different aspects of the PWS ecosystem; to better understand the interact of the ecosystem; and to aid in the recovery of the l lost services.	f Pacific tions of the	<u>Chief Scien</u> As revised, program des	this propos		he leadership the	herring resea	arch	Fund. Inc. herring pr program l unlikely th	ogram. No eader shoul his project v	on ership should increate te that the balance d come from 96162 will transition into r will be rolled into o	of funds needed to , 96165, and 961 formal agency ma	o hire a 66. It is magement. In	
96165	Genetic Discrimination of Prince William Sound Herring Populations	ADFG AI	DFG	\$105.8	\$103.9	\$103.9	\$120.0	\$97.0	\$0.0		3rd yr. 5 yr. project	\$103.9	() [_]	
Alaska Depa knowledge o management population(s mitochondria	erring fishery has been in catastrophic decline sinc artment of Fish and Game recovery effort includes f genetically derived population structure into har t. This continuing project will delineate the struct) and related North Pacific populations using both al DNA analyses. Tests for temporal and spatial of mporal stability across years will be done.	incorporating a vest ure of PWS nuclear and	for managin	ntinuing pr ng Prince W ndmirably o	oject that wil /illiam Sound n past projec	l directly affect is d herring. The in ts, and I recomm	vestigators h	lave	Fund. This composition population setting has	on of PWS I us. This info rvest limits,	on dresses basic questi herring in relation to ormation is importa- it is important to k anct populations.	o other North Pac ant to management	rific nt. When	

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Proj. No.	Title	Lead Agency H	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96166	Herring Natal Habitats	ADFG	ADFG	\$444.1	\$444.1	\$444.1	\$405.6	\$405.6	\$1,120.0	\$2,375.3	3rd yr. 9 yr. project	\$229.9	\$214.2
hatching su in larvae. 7 since 1993, (VHS) and indicators o spawning h pathogens a	Past studies have documented damage from oil exposure in adult herring, hatching success of embryos, and levels of physical and genetic abnormalities in larvae. The PWS herring spawning population has drastically declined since 1993, and pathology studies implicated Viral Hemorrhagic Septicemia (VHS) and <i>Lehthyophonus</i> as potential sources of mortality as well as indicators of stress. The project will continue to provide estimates of spawning herring abundance and investigate the lethality of suspected pathogens and the role of environmental contaminants in disease transmissionRelates to SEA hyopheniss and causes of decline in herring, which are fundamental to the EVOS restoration program. However, there is concert about the extent to which some activities can be considered on-going agency management. The budget is too high.Defer decision pending 1) review of FY 95 results in fall; 2) a review of the recovery objective for herring based on FY 95 results; 3) a review of the project budget; and 4) agreement on plan for transition to normal agency management. In addition, there is a question whether herring spawning herring abundance and investigate the lethality of suspected pathogens and the role of environmental contaminants in disease transmission through laboratory and field studies.Yes and the role of environmental contaminants in disease transmission\$4,783.6\$5,154.8\$4,525.7\$3,600.0\$2,600.0\$10,725.7\$4,525.7												
	system Assessment (SEA) nmendation: Fully fund projects in this cluster	, as recommended t	by the Executi	-	\$5,154.8	\$4,525.7	\$3,600.0	\$2,600.0		\$10,725.7	,	\$4,525.7	
96320	Sound Ecosystem Assessment (SEA)	ADFG Co	oney, et al				\$3,600.0	\$2,600.0		\$6,200.0	3rd yr. 5 yr. project		
production of investigates physical env interacts wit	alti-component, interdisciplinary study of factor of pink salmon and Pacific herring in PWS. T the early life stages of these species. Hypother vironment (temperature, salinity, circulation, a th fish and plankton populations in the region are field sampling and modelling studies.	he study ses about how the nd water structure)	Project I restorati valuable A reviev	on must be co information f wworkshop sh	the larger con insidered to b for the manage would be held	ntext of ecosystem e effective, and is gement of salmon in January 1996 irst 2 years' work	is likely to cor n and herring , at which we	ntribute in PWS.	Fund. Pr continued report wr to the NC is needed funding v	l work in FY iting in FY DAA-BAA p to enter int vill be consi	recommendation (7 96. Also, an ac 97 (\$589.1) is re rocess. Authoriz o NOAA-BAA co dered after mid-J	n of \$4525.7 reflect ditional amount fo ecommended as rest zation for these repo ontracts. Future pro fanuary SEA progra 600.0; FY 98 is \$2	r PWSSC ult of train ort writinds ogram effort and am review

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate		Approved 8/25/95	Deferred Decision to December
96320E	Salmon and Herring Predation	ADFG	ADFG	\$670.5	\$637.7	\$637.7				\$637.7	3rd yr. 5 yr. project	\$637.7	
juvenile pin	would determine the extent to which variat k salmon affect survival and describe mecha	inisms that cause	See 963	cientist's Con 20.	nments				Trustee (See 9632	Council Act 0.	ion		
(distribution salmon mig	predation. This would include the identific a, abundance, species, and size composition) ratory pathway. The project will also collect e other SEA efforts.	along the juvenile	s 										\bigcirc
96320G	Phytoplankton and Nutrients	ADFG M	cRoy, UAF	\$162.2	\$162.2	\$162.2				\$162.2	3rd yr. 5 yr. project	\$162.2	
phytoplankt on the PWS phytoplankt	would focus on primary production and pro on data to help evaluate the influence of phy food web. The project would examine varia on production in relation to zooplankton pro- nic conditions.	toplankton dynamics ations in	See 963	<u>cientist's Con</u> 20.	<u>iments</u>				Trustee C See 96320	Council Act	ion		
96320H	Zooplankton in the PWS Ecosystem	ADFG Co	ooney, UAF	\$329.9	\$323.6	\$323.6				\$323.6	3rd yr. 5 yr. project	\$323.6	
its relations monitor the	would continue to investigate the annual zon nip to fish predator abundance. The project distribution and composition of PWS macro in collaboration with the physical oceanogra	would sample and zooplankton		<u>cientist's Com</u> 20.	uments				Trustee C See 96320	louncil Acti	ion		\bigcirc
963201	Isotope Tracers - Food Webs of Fish	NOAA	PWSSC	\$194.9	\$270.3	\$195.8				\$195.8	3rd yr. 5 yr. project	\$195.8	
ratios that o	would analyze tissue samples and use shifts ccur with trophic level and food source to de in relationships among species in PWS.		<u>Chief S</u> See 963	cientist's Com 20.	ments				See 96320 writing co	ouncil Acti 0. (Note: A sts in FY 9 g process.)	n additional \$74 7 as a result of tr	5 is recommended transition to the NOA	o fund report A-BAA

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 Total FY to end 96 to en Estimate Estimate	1 Project	Approved 8/25/95	Deferred Decision to December
96320J	Information Systems and Model Development	NOAA	PWSSC	\$489.9	\$655.9	\$482.7			\$482.7	3rd yr. 5 yr. project	\$482.7	
System Inve provide an i effort and d objectives. technical su communicat sampling tec	would continue work initiated in FY 94 as part of estigation (Project 94320). This particular sub-proj nformation system appropriate for the PWS System evelop the modeling resources needed to achieve th This sub-project provides for overall data managen pport to other PWS System Investigation efforts th tions; descriptive modeling; numerical modeling; s chnologies; and providing for on-line analysis and ride the means by which various data can be collect	ect would in Investigati in program's ment and rough field (upport with visualization	See 963 on data n	<u>Scientist's Con</u> 320.	<u>nments</u>				<u>Trustee Council Ad</u> See 96320. (Note: writing costs in FY contracting process	An additional \$173. 97 as a result of the	2 is recommende transition to the	d to fund report NOAA-BAA
96320K	PWSAC: Experimental Fry Release	ADFG	PWSAC	\$55.1	\$61.4	\$61.4			\$61.4	3rd yr. 5 yr. project	\$61.4	
effort to inve	would support the rearing of salmon fry for release estigate the possible influence of fry size as a deter- ing early marine residence as part of the SEA study	ninant of		cientist's Com 20.	nments				<u>Trustee Council Ac</u> See 96320.	<u>tion</u>		
96320M	Physical Oceanography in PWS	NOAA Sa	almon, PWSSC	\$506.9	\$645.8	\$499.4			\$499.4	3rd yr. 5 yr. project	\$499.4	
including the within PWS, storms, long currents; det resources for	would investigate the physical oceanographic struct e space/time variability of atmospheric and oceanic investigate relationships between atmospheric for term temperature changes) and wind and buoyanc ermine how these relationships act to retain/disper ecologically important species within PWS; and in e scale oceanographic structures and major climatic	c processes cing (wind, y-driven se food nyestigate	S See 963	<u>cientist's Com</u> 20.	<u>iments</u>					An additional \$146. 97 as a result of the		

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred		FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96320N	Nekton/Plankton Acoustics	NOAA	PWSSC	\$485.2	\$682.6	\$487.6				\$487.6	3rd yr. 5 yr. project	\$487.6	-
real time us real time us plankton/n	t would describe macrozooplankton distributi sing hydroacoustics; describe fish predator dis sing hydroacoustics; investigate hypothesis th ekton/predator populations aggregate in cyclic ue to currents and bottom morphology.	stribution/biomass in at	See 963	Scientist's Con 320.	aments				See 9632	Council Act 0. (Note: A osts in FY 9 ng process.)	An additional \$19 97 as a result of th	5.0 is recommended the transition to the N	l to fund report IOAA-BAA
96320Q	Avian Predation on Herring Spawn	ŲSFS	USFS	\$35.0	\$32.7	\$32.7				\$32.7	3rd yr. 5 yr. project	\$32.7	
	t would close out research to determine herrin uch as glaucous-winged gulls, surf scoters, bla		<u>Chief S</u> See 963	<u>scientist's Com</u> 20.	aments				<u>Trustee C</u> See 96320	Council Act	ion		
96320R	SEA Trophodynamic Modeling and Validation Through Remote Sensing	ADFG Es	linger/UAF	\$204.0	\$202.7	\$202.7				\$202.7	3rd yr. 5 yr. project	\$202.7	
Some of the project in F modeling o modeling o and verify t	w SEA project in FY 96 as a result of an inte- work performed under 95320-G and J is to Y 96 and beyond. This project would continu f phytoplankton and zooplankton begun in FY f ichthyoplankton, herring larvae in particula he model against field data to be collected usi sing and in situ sampling platforms. (Funds 96320.)	be done under this ue the trophodynami Y 95 and add r. It will evaluate ing a variety of	. See 963 effective c controls	e. This work i	ganization of is central to d	the SEA programe levelopment of an a recruitment suc	n understanding	of	Trustee C See 96320	<u>Council Acti</u>).	<u>ion</u>		\bigcirc

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96 320 T	Juvenile Herring Growth and Habitat Partitioning	ADFG N	larcross, UAF	\$1,234.6	\$1,141.6	\$1,141.6				\$1,141.6	3rd yr. 5 yr. project	\$1,141.6	
runs in PWS The propose part of the S zooplankton	would investigate what may be causing the fail S by investigating the dynamics of larval and jur- ed project, together with other investigations beil EA program would attempt to describe the relate abundance, oceanic conditions, habitat requires redation in determining large fluctuations in he	venile herring. ng undertaken a ive importance ments, and dens	See 9632 as of sity	cientist's Com 20.	<u>iments</u>				Trustee (See 9632	Council Act 0.	<u>ion</u>		
96320U	Energetics of Herring and Pollock	ADFG	Paul, UAF	\$190.3	\$189.5	\$189.5				\$189.5	3rd yr. 5 yr. project	\$189.5	
forage fish s The project reproductive	Id focus on the seasonal somatic energy cycles of pecies in the spill area Pacific herring and wa would explore overwinter survival of juvenile he biology and provide energetic information to qu (food webs) involving pollock.	lleye pollock.	See 9632	zientist's Com 20.	ments				<u>Trustee (</u> See 9632	Council Act	ion 		
96320Y	Variation in Local Predation Rates on Hatchery-Released Fry	ADFG	PWSSC	\$120.0	\$40.0	\$40.0				\$40.0	3rd yr. 5 yr. project	\$40.0	
<u>Abstract</u> Project close duration of f sites.	out of investigation of the size, composition, be oraging aggregations of predators, especially bin	havior and rds, at fry releas	See 9632	ientist's Com 20.	ments				Trustee (See 9632	Council Acti 0.	ion		
96320Z1	Synthesis and Integration	ADFG C	Cooney/UAF	\$65.1	\$68.8	\$68.8				\$68.8	3rd yr. 5 yr. project	\$68.8	
associated w	provides support for synthesis and integration a it the application of SEA field and modelling s f pink salmon and Pacific herring populations in	tudies to the	Necessar	ientist's Com y for effective rative support	e project man	agement, althou	gh cost for		<u>Trustee (</u> See 9632	Council Acti 0.	on		

also be prepared.

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96320Z2	Sound Ecosystem Assessment (SEA): Coordination & Communications	NOAA	PWSSC	\$40.0	\$40.0	\$0.0				\$0.0	3rd yr. 5 yr. project		
personnel to local knowl	is intended to provide coordination, logistical su o assist the SEA scientists with coordination and ledge; and to assist the Restoration Office with co vities and results to communities in PWS.	incorporation (The pro of more of of Willian qualifie	f a public relat n Sound Scien ed and dedicate	is focused up tions effort fo the Center. The ed, but the no	on incorporating or the SEA progr The Principal Inv ced to be address estoration Progr	am and the Prestigator is we were a best don	rince ell	Do not fi	nd 96052) a	ion unications are ong nd also are respon		
SEA Progr	ram Related Projects	•		\$375.2	\$375.2	\$112.7	\$85.0	\$85.0	\$170.0	0 \$452.7	<u>.</u>		\$112.7
96054	Mass-Balance Model of Trophic Fluxes in Prince William Sound	ADFG	Pauly/UBC	\$105.9	\$105.9	\$0.0			<u>.</u>	\$0.0			
mass-balan prepared us would colla where the u	p is proposed where experts would assemble the received of trophic fluxes in PWS. Model const sing the widely-used ECOPATH II approach. A te the results and prepare material for an evaluat use of the ECOPATH II model will be considered interactive software for display in the Alaska Seal	ruction would b graduate studen ion meeting . An education	This is be William at APEX approputal Investig	n Sound that h (96163) progra riate in FY 97. gator for this p	roposal to co has the potenti ams. The initians. The initians . However, I project be inv	instruct a trophic tial to integrate t itiation of this pr recommend that ited to participat cience meeting i	he SEA (9632 oject would be t the Principal e in both the S	20) and e most SEA	Do not fu participa		6. However, proje 95 SEA review wo		

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96193-BAA	Flux and Nutritional Quality of Particulate Organic Carbon: Relationship to Survival of Juvenile Pelagic Fish	ADFG	Naidu/UAF	\$156.6	\$156.6	\$0.0				\$0.0			
marine organ hypothesis for of particulate production a survival of ju clarify wheth natural cause	rganic carbon is the ultimate source of food and nisms. Propose to test the SEA Program's (9632 or PWS by correlating the seasonal fluxes and me e organic carbon to the time-series variations in nd hydrodynamic conditions, with implication of rvenile pink salmon and Pacific herring. This to ther the yearly fluctuation in the two fish stocks i es, and provide a basis in decision making for ei- g the two fish stocks.	20) river-lake utritional qual primary on the growth esting will hele s related to	Organi Williar lity not mea ecosyst and that pro p to	n Sound ecosy asurably contr	oubtedly plays stem, but the ibute to achie , SEA project	an important ro results of this p ving the objectiv 96320). More a is proposal.	roject would p	orobably sent	Do not fi			bute sufficiently to ject.	restoration
96195	Pristane Monitoring in Mussels and Predators of Juvenile Pink Salmon & Herring	NOAA	NOAA	\$112.7	\$112.7	\$112.7	\$85.0	\$85.0	\$170.0	\$452.7	1st yr. 5 yr. project		\$112.7
larval herring alternative pr pristane in m pink salmon	will measure pristane in predators of juvenile pi g to determine the dietary dependence of these p rey, <i>Neocalanus</i> spp. copepods. This project with sussels as an indirect index of potential year-class and herring. These results will be used to evalue and hypothesis of the SEA plan and identify critic tat in PWS.	predators on Il also monito as strength for ate the	d An extr an integ r ecosyste		le and elegan r future moni	t proposal with t toring of the Prin ted proposals.			Defer. T and mean marine p production	suring prista roductivity,	nically innovative ne in mussels ma thus allowing pre	e and excellent pro by provide a simple edictions about futu te in December bas	measure of re fisheries

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Proj. No.	Title	Lead Agency Pro	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December			
Sockeye Sal	mon Program		\$2,201.5	\$2,198.0	\$1,765.3	\$427.0	\$75.0	\$150.0) \$2,417.3		\$771.0	\$994.3			
PAG Recom	mendation: The PAG directs staff to review	ew sockeye projects with	an eye to identifying bu	dget reduction	ns, and to close	out manageme	nt-related as	pects of the	e sockeye cl	uster as expedition	usly as possible.				
96048-BAA	Historical Analysis of Sockeye Salmon Growth Among Populations Affected by Overescapement in 1989		C, Inc. \$86.7	\$116.9	\$116.9	\$0.0	\$0.0	\$0.0	\$116.9	lst yr. 1 yr. project		\$116.9			
1989 as a res salmon grow growth in the sockeye scale after the oil	Overescapement in 1989														
96255	Kenai River Sockeye Salmon Restoratio	n ADFG A	DFG \$447.9	\$442.9	\$442.9				\$442.9	6th yr. 6 yr. project	\$239.8	\$203.1			
of oil caused exceed the d reduced surv reduction of adequate esc sockeye salm	ced fishing time in upper Cook Inlet in 19 sockeye salmon spawning escapements in esired amount by three times. The overesc ival of juvenile sockeye salmon. Careful r Kenai River sockeye salmon harvests may apements. The goal of this project is to re non through improved stock assessment can ulation of spawning levels.	the Kenai River to capement may have nonitoring and possible be necessary to ensure store Kenai River	Chief Scientist's Co This has been an ex and '95. It has achie the upper Cook Inle amount seems high.	cellent program eved its objecti t fishery. Clos	ives by providing	g management	tools for	Fund clos years unti sockeye r project pr fishermer	il December eturn and of ovides in-se are harves	95 project. Defer , pending a review f the overall Kena ason identification ting which is used	r a decision on FY v of the 1995 Ken i/Skilak sockeye pr n of actual runs the l by fisheries mana Lenai/Skilak stocks	ai/Skilak rogram. TI at Cook Inlet gers to modify			

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96256	Columbia Lake Sockeye Salmon Stocking	USFS	USFS	\$40.6	\$60.8	\$60.8	\$0.0	\$0.0	\$0.0	\$60.8	1st yr. 1 yr. project		\$60.8
southeast to lake level of access to sa return of 10 would gath	Lake is a 2.8 km ² surface area lake located in Heat erminus of the Columbia Glacier. With recession fropped and the outlet now flows across a morain almon. Comparative data suggest that this lake of 0,000 to 29,000 adult sockeye salmon annually. The er limnological data, transplant fry and monitor to d return of adult salmon.	of the glacier, e, restricting ould produce This project	the Uncert the extension	<u>Scientist's Con</u> ain if this glac ive program th	al lake can s	sustain a sockeye	run without 1	nuch more	Defer. R revision feasibility	combines the study. If f	ion submitted but not is project with 962 easible, these proj d PWS subsistence	257 and recasts pro ects could provide	oject as a significant
96257	Solf Lake Sockeye Salmon Stocking	USFS	USFS	\$34.3	\$34.3	\$0.0				\$0.0			
Abstract			Chief	Scientist's Con	ments				Trustee (Council Acti	ion		
Island. Thi 1930s block produce ret project wou	s a 0.61 km ² surface area lake located in Herring is lake had a run of sockeye salmon until an earth ked the outlet. Limnological data suggest that this urns of 19,000 to 22,000 adult sockeye salmon, a ald open the lake to migrating salmon, monitor pl transplant fry and monitor the outmigration of s mon.	equake in the s lake could nnually. This ankton	fisheri	roposed multi- es in western P	year effort ra rince Williar	ises questions ab n Sound that nee	out mixed-sto ed to be addres	ck ssed.	Project co	ombined wit	th 96256.		
96258A	Sockeye Salmon Overescapement Project	ADFG	ADFG	\$907.8	\$858.9	\$858.9	\$150.0	\$75.0	\$150.0	\$1,233.9	3rd yr. 6 yr. project	\$460.2	\$398.7
Abstract			Chief	Scientist's Com	ments				Trustee (Council Acti	ion		

This proposal provides for a close-out budget for the Kenai lakes sockeye research program with a limited continued sockeye monitoring program for the Kodiak Island lakes. If depressed adult returns from 1989 brood are observed in the Kenai River in 1995, continuation of the evaluation is proposed for the 1996 field season, which would bring the FY 96 cost to \$907,800. In addition, a separate proposal to experimentally evaluate the proposed mechanism leading to reduced production of smolt from the Kenai systems by mean of an in situ enclosure study is integrated into these investigations.

Preliminary analysis of the 1995 return appears to confirm a weak return of the 1990 brood year, which would be consistent with an effect of overescapement in 1987 - 1989. The fry weight data and observations on vertical migration of zooplankton might also reflect on effect of overescapement. The application of the limnological work to management is unclear. The closeout costs appear high and further description of the analysis to be conductd on 1995 data is needed. I cannot recommend gathering new data except perhaps in Red and Akalura lakes on Kodiak Island.

Trustee Council Action

Fund close-out of FY 95 work on Kenai/Skilak portion; continue limited Kodiak monitoring. Defer decision on FY 96 and future years' Kenai/Skilak work until fall, pending review of 1995 sockeye return and of the overall Kenai/Skilak sockeye program. This project investigates multiple mechanisms for injuries to sockeye caused by overescapement, and also will determine the effects on smolt escapement and ultimate production of returning adults. It also monitors recovery of Kodiak runs and provides information to help restore these runs.

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96258B	Sockeye Salmon Skilak Lake Enclosure Project	ADFG	ADFG	\$341.1	\$341.1	\$0.0				\$0.0			
sockeye retu major quest reduced gro overwinter Second, are	al will be initiated if the 5-year component of the urn is very low. The proposed study examines ex- ions about limits to sockeye salmon production. I with rates and subsequent reduced recruitment to survival be explained by decreased availability of nutrient additions effective at improving zooplan- ted decreases in sockeye salmon? This study is a	perimentally 2 First, can fall fry and zooplankton? ikton production	There n doing th	cientist's Com nay be reason t nis soon.		n the future but	I can not record	mmend	Do not fa	ndation, de returns, and	6. Consistent wi	th Chief Scientist's funding should awai rerall Kenai/Skilak s	t return of sockeye
96258C	Kenai River Ecosystem Restoration: Starvation-Temperature Study	DOI	DOI	\$57.3	\$57.3	\$0.0				\$0.0			
5-year comp questions: 1 conditioned observed co variability is winter and s	al is a companion to 96258A. It will only be initi- conent of Kenai sockeye returns at a low level. It First, "Can the variability in overwintering surviv fall fry be replicated in a laboratory simulation o nditions in Skilak and Kenai Lakes?" Second, " in overwintering survival be modeled with field da easonal food availability?" The answers will be re- restoration plans and evaluating escapement goal	examines two val of poorly f the naturally Can the ata on length of useful in		cientist's Com ament of 9625					Do not fur recomme	ndation, de	5. Consistent wit	th Chief Scientist's unding should awai all Kenai/Skilak soo	t return of 1995 Skeye returns.
96259	Restoration of Coghill Lake Sockeye Salmon	ADFG	ADFG	\$285.8	\$285.8	\$285.8	\$277.0	\$0.0	\$0.0	\$562.8	4th yr. 5 yr. project	\$71.0	\$214.8
current proc sockeye stoc begun in 19 salmon run	e has historically been a major sockeye producer a fuction is very low and could jeopardize the sustain k without restoration efforts. This project continue 93 to fertilize Coghill Lake to restore the run. A would provide an important replacement resources fisheries in PWS.	inability of this ues a program restored sockey	This pro fertilizat Reviews e program	ion to increase have identifie does not worl	cement action e sockeye sal ed risks in the k, we are not	n for oil spill inj mon production approach taker likely to know v ommend contin	in Coghill Lal 1. If the fertili why. In spite of	ke. zation	Defer pen recommen non-Trust restore Co commerci	ndation in F tee funding oghill Lake al/sport soc	of FY 95 results Y 95 work plan, source after FY 9 to its former posi keye fishery in P	s (fund interim). Co there must be a tran 7. This project is d tion as a mainstay o WS. Although the this project has bee	nsition to a lesigned to of the injury to this

commercial/sport sockeye fishery in PWS. Although the injury to this fishery was not caused by the oil spill, this project has been conducted on a replacement basis for losses of other fishery resources.

Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
1	and Dolly Varden Trout Projects mmendation: Fully fund projects as propose	d by the Executive 1	Director, with	\$565.1 h greater empha	\$428.4 sis, if possib		\$227.7 deferred proje	\$127.7 cts if approv	\$26. ped by the E		rector).	\$200.0	\$40.4
96043A	Cutthroat Trout and Dolly Varden Char Population and Habitat Monitoring	USFS	USFS	\$29.6	\$29.6	\$0.0				\$0.0		× •	
Abstract			Chie	f Scientist's Com	ments				Trustee (Council Act	ion		
monitor the char, detern more about the weir in	a weir has been operated at Mile 18 Creek no populations of anadromous cutthroat trout a nine population variability, estimate survival migration patterns and habitat requirements. 1996 and 1997 will complete the data needed es for several year classes and will give a goo variability.	nd Dolly Varden rates, and learn Continued study at for determining	This the op aspec	is a new project peration of a wei ts of sport fisher ct will aid the re	for Trustee (ir on Mile 18 y manageme	Creek. While ent at Mile 18, i	this may impro	how this			t is part of on-go	bing agency effort.	:
96043B	Monitoring of Cutthroat Trout and Dolly Varden Habitat Improvement Structures	USFS	USFS	\$40.4	\$40.4	\$40.4	\$27.7	\$27.7	\$26.4	\$122.2	3rd yr. 5 yr. project		\$40.4
Abstract			Chief	Scientist's Com	ments				Trustee (Council Act	ion		
their effects structures w 95043B. A	t provides for monitoring of habitat improven on cutthroat trout and Dolly Varden populat vere installed in 1995 under EVOS Restoration dditionally this proposal would provide for a oject number 95043B.	ions. These on Project number	This of effect	enhancement pro s and it's technic	oject has add cally accepta	ressed concerns ble.	about supplen	nentation	Defer for	resolution		osts and schedule. VOS project.	This project
96043C	Cutthroat Trout Habitat Improvement Structures	USFS	USFS	\$100.2	\$100.2	\$0.0				\$0.0			
Abstract			Chief	Scientist's Com	ments				Trustee (Council Act	ion		
This project improve cut will identify detailed eva finalized pri	thas the same focus as Project 94043/95043E throat trout rearing habitat in western PWS. y up to four streams with habitat enhancemen luation and environmental analysis would be for to the 1996 field season when implementants the would take place.	In FY 95, the USFS at opportunities. A conducted and	Perfor S comp propo	rmance evaluation leted prior to consals need to consult to consult to consult to construct to c	ons of previo mmencing no sider species	ew manipulation interactions to	ns. In addition ensure that	, future	Do not fu	ind. Recon		ar improvements fu ated.	nded under

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Proj. No.	Title	Lead Agency P	roposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96145	Cutthroat Trout and Dolly Varden: the Relation Among and Within Populations of Anadromous and Resident Forms	USFS	USFS	\$336.7	\$200.0	\$200.0	\$200.0	\$100.0	\$0.0	\$500.0	1st yr. 3 yr. project	\$200.0	
form of instr usefulness of determine th within the sa meristic, and allow a long	cutthroat trout is unknown. Restoration efforts has earn habitat modification and stock supplementat f this approach in the long term is unknown. This e relation between resident and anadromous form me watershed and between watersheds by examin l life-history features of each group. Results from -term, comprehensive and ecologically sound rest a to be developed.	ion. The s project would s of these fish ing genetic, this study will	This is a relations and cuttl constrain for the sp results o	ships between hroat trout. (ning our abili pecies. This btained previ	Ily excellent p resident and Dur lack of kn ity to identify project will a ously. Since	proposal that will anadromous for nowledge of life h the most effectiv lso help clarify d the findings of th cost sharing by t	ms of Dolly V history strateg re restoration amage assess his study have	/arden gies is strategies ment	Fund. The forms (e.g nature an has occur managem	g., anadrom d extent of l red. This sa lent of sport	Even the second	among stocks and refines understand may confirm whe as direct implication e William Sound a support for this pro-	ing of the her recover ons for nd nationwide,
96177A	Cutthroat Trout, Dolly Varden Char Habitat Restoration, Lake Elsner Area	USFS	USFS	\$26.6	\$26.6	\$0.0				\$0.0			
have affected Ranger Distr area and det	ests in the Lake Elsner watershed, 13 miles east of a cutthroat trout and Dolly Varden char habitat. The cict proposes to work with the Eyak Corporation to ermine if there are any existing or potential impact d, plans for restoration projects will be developed.	The Cordova o survey the ts. If problems	I cannot Corporat		that the Trust ration of dam	tee Council fund age apparently ca			<u>Trustee C</u> Do not fu	<u>Council Acti</u> nd.	<u>on</u>		
96177B	Cutthroat Trout, Dolly Varden Char Habitat Restoration, Port Fidalgo and Port Gravina Area	USFS	USFS	\$31.6	\$31.6	\$0.0	- <u> </u>			\$0.0			\bigcirc
northwest of char habitat. Corporation	ests in the Port Fidalgo and Port Gravina area, 20 Cordova, may have affected cutthroat trout and D The Cordova Ranger District proposes to work v to survey the area and determine if there are any o pacts. If problems are identified, plans for restora oped.	Oolly Varden with the Tatitlek existing or	I cannot USFS to Perhaps	restore dama this kind of a	that the Trust	tees fund the Tati y logging practice be sought throug	es on private	land.	Do not fu	ouncil Action nd. Desired ns for purch	restoration should	d be addressed in t tection in the Tati	he ongoing lek area.

Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
	ammal Program			\$1,163.1	\$1,099.5	\$819.0	\$687.3	\$275.1	\$25.0	\$1,806.4		\$792.6	\$26.4
PAG Recon	mmendation: Fund projects of this cluster as re	commended by th	e Executive Di	rector.									
96001	Recovery of Harbor Seals from EVOS: Condition and Health Status	ADFG Cas	stellini/UAF	\$187.4	\$214.1	\$214.1	\$192.3	\$48.1	\$0.0	\$454.5	2nd yr. 4 yr. project	\$214.1	
that is not re University o Game will w chemistry ar requirement	focuses on the health of harbor seals, a marine ecovering in Prince William Sound. Personnel of Alaska in cooperation with the Alaska Departs work with harbor seals to assess their health, blo and size in relation to their ecological and nutrities. The project addresses potential health and m impeding harbor seal recovery.	from the nent of Fish and od and blubber onal tritional problem	This is a recovery qualified hypothes	of harbor sea	al proposal the second	hat addresses a l pill area. The i e the most gene	nvestigator is	well	Fund. Th status of l declines i necessary This proj hunters, a	narbor seals n the PWS to eliminat ect complement of others to	vill document the , thus helping to harbor seal popu- te alternative hyp nents 96064 and	body condition and test the "is it food?" lation. This inform otheses (e.g., predat will enable manage cerns and efforts on e.	hypothesis for ation is tion, disease). rs, subsistence
96012A-BAA	Comprehensive Killer Whale Investigation in Prince William Sound, Alaska	NOAA N C	alf Oceanic	\$167.5	\$107.2	\$107.2				\$107.2	2nd yr. 2 yr. project	\$80.8	\$26.4
Prince Willia 1984. It dev genetic and a	continues the monitoring of the damaged AB po am Sound killer whales that has occurred on a y relops a GIS database on killer whales that when acoustic data will help evaluate recovery, recogn d estimate killer whale impact on harbor seals.	early basis since coupled with	This is a track the		opoșal that wi s well as com	ill monitor kille pile past data o			Fund clos funds to c budget, as monitorir	ontractor co s well as N(g killer wh	or work including ontingent upon ag DAA's approval o ales in FY 96 and	g GIS component. pproval of revised D of contract. Defer de d beyond until result whales are reconsid	PD and ecision or ts of FY 95

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Proj. No.	Title	Lead Agency F	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96012B	Impact of Killer Whale Predation on the Recovery of Injured Resources in Prince William Sound	NOAA	NOAA	\$229.5	\$229.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0			
killer whale collect biops populations Killer whale isotope and	we of the proposed project is to investigate the population on the recovery of PWS injured population sy samples from killer whales from each of two population is supported resident and transient whale population is and blubber samples will be examined through the fact of the fraction of the fraction of the fraction that predates on marine mammals versus for the fraction of the fraction is a support of the fraction of the frac	ations. We will putative ions) from PWS. pugh stable ne PWS killer	This pro and their fatty acid resident basis of o whale pr this appr familiari	r prey using t l ratios. Unp and transitor differences in edation on va oach, and, in ty with the m	determine the two tracer me published resu- y types of wh the ratios of arious species general, this	e trophic linkages thods: stable isot ilts from British (ales can be discri two fatty acids. ' s will not be able proposal does no convinces the revi- ts.	ope analysis Columbia ind minated easi The rate of k o be determi t display a	and free licate that ly on the iller ned from	Do not fu	Council Action and. The Ch ct as propose	ief Scientist has	significant technica	l concerns about
96064	Monitoring, Habitat Use, and Trophic Interactions of Harbor Seals in Prince William Sound	ADFG	ADFG	\$381.1	\$347.3	\$347.3	\$347.0	\$100.0	\$25.0		2nd yr. 5 yr. project	\$347.3	
the possible to determine increases. S haulouts, an whiskers, ar	will monitor the status of harbor seals in PWS a causes for the ongoing decline. Aerial surveys we whether the population continues to decline, state eals will be satellite-tagged to describe their mo d hauling out and diving behavior. Samples of the ad skin will be collected to study diet, health and ionships to other harbor seal populations.	will be conducted abilizes, or vements, use of blood, blubber,	This is a			ntinuing work on ming well.	restoration o	of harbor	Fund. The harbor search alternative resource r	als. Focus is es, such as p nanagers, su	ly explores reaso s on "is it food?" predation and dis ubsistence users,	ons for the long-term hypothesis, but also sease. This work wi and others to focus ses of population de	addresses Il enable their efforts
96121-BAA	Stable Isotope Ratios and Fatty Acid Signatures of Selected Forage Fish Species in Prince William Sound, AK	NOAA Word	thy/TXAM	\$51.0	\$51.0	\$0.0			,	\$0.0			
impact on har non-recover whales. Tra this is true, l acid signatu	will examine the feeding ecology of killer whales arbor seals within PWS. Evidence suggests that ing status of harbor seals may be due to predatio ditional methods of food web analysis cannot de but the combination of stable isotope tracer techn re analysis will allow us to estimate the degree of se two injured species.	the n by killer termine whether niques and fatty	This is a composit composit use these it is not c species e	ion in forage ion of the fat findings to c rertain that th ffectively.	nnovative pro fish, includin ty acid molec decipher the c nese "cutting	ogram that will ar ng analysis of the sules. The purpos liet of fish-eating edge" techniques cost-effective. Co of effort.	stable isotop e of the proje killer whales can discrimin	e ect is to s, although nate prey	Do not fui compositi marine m	on of forage ammals. Th	would document fishes, which ar is project would	fatty acid/stable iso e prey to killer what be appropriate only ding, but they are no	les and other if 96012A

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96170	Isotope Ratio Studies of Marine Mammals in Prince William Sound	ADFG	Schell/UAF	\$146.6	\$150.4	\$150.4	\$148.0	\$127.0	\$0.0	\$425.4	2nd yr. 4 yr. project	\$150.4	
Abstract			Chief S	cientist's Com	ments				Trustee (Council Act	ion		
through food isotope ratio potential pre- the decline of isotope ratio ecosystem.	e ratios are natural tracers of carbon and nitroge l webs. Through a mix of captive animal studies s in archived and current marine mammal tissues y species in the PWS, insight into environmental f harbor seals may be possible. This project will determinations for other projects using this techn Over the 12 months of FY 96 funding about 10,0 projects will be analyzed. (This project was form	, comparison of s and their l changes caus supply the nique in the P ¹ 00 samples in	of into the obtained ing modelin with Pro	functioning o d in other way ag the entire e	of the Prince vs. It may we cosystem at a	ject will doubtle William Sound e Il provide valual very reasonable duplication of e	ecosystem that ble informatio e cost. Coordi	cannot be n for	the SEA	program (9		support for 96064, og the food chains t S.	
Nearshore H	cosystem Projects			\$6,515.9	\$6,426.0	\$3,596.6	\$2,470.4	\$2,459.4	\$1.340.0	\$9,866.4		\$2,583.4	\$1,013.2
PAG Recon this fall's oi	mendation: This cluster should be targeted for j ling workshop.)	fine tuning and	d budget reducti	•				•	•	•			
96025	Mechanism of Impact and Potential Recovery of Nearshore Vertebrate Predators	DOI	DOI	\$1,669.4	\$1,728.2	\$1,728.2	\$1,669.4	\$1,669.4	\$450.0	\$5,517.0	2nd yr. 4 yr. project	\$1,728.2	
Abstract			Chief So	cientist's Com	ments				Trustee (Council Acti	ion		
"apex" preda recovery and hypotheses: (processes; 2) benthic prey	ssesses trophic, health, and demographic factors tors injured by the spill to determine mechanism improve knowledge of the status of recovery. Pr) recovery of nearshore resources is limited by re initial and/or residual oil in benthic habitats and has had a limiting effect on the recovery of preda- ed changes in populations of benthic prey species of predators.	s constraining imary ccruitment i in or on ators; and 3)	18-mon review o fall or w	th workplan w of the first full	as approved field season	n detail in Marcl by the Trustee C of this program efine the program	Council. A det will be condu	ailed	1996 Det season. I the nears hardest h organism question	ailed Projec Budget will hore ecosyst it by the spi s and closel	t Description are r be reevaluated foll tem, including into 11. This project m y linked vertebrate	of 1995 to see if m necessary based on lowing review sessi- ertidal habitat and onitors recovery of e predators and add ination is slowing	1995 field ion. In g organism s intertidal irresses

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96027	Kodiak Archipelago Shoreline Assessment: Monitoring Surface and Subsurface Oil	ADEC	ADEC	\$35.1	\$60.0	\$60.0	\$0.0	\$0.0	\$0.0	\$60.0	2nd yr. 2 yr. project	\$60.0	
toxicity and these shorel remaining o acceptable r oil is still af	completes work begun in FY 95 to determine the origin of oil on selected Kodiak Archipelago shor ines were last surveyed in 1990. The information il is necessary to determine whether recovery is p ate; to help local people assess whether the presen fecting shoreline activities; to determine the origin ng oil; and to determine if any beaches need addit	elines. Most of about the roceeding at an ce of remaining and toxicity of	This is o f final rep g of			community meeti	ngs and compl	lete the		Council Acti	ion loses out work fu	inded in FY 95.	0
intertidal alg limited num showed cont determine th	Coastal Habitat Intertidal Monitoring Habitat Injury Assessment study showed continue gal and invertebrate populations when last sample ber of sites was monitored in PWS and Kenai thre tinued damage. This study proposes to revisit the beir recovery status. Intertidal communities are in cosystem and monitoring is critical for understand e spill.	d injury to d in 1991. A ough 1994 and original sites to tegral to the	This is a surveyed coarse-te	l since 1991. extured beach	m that revisi Damage was nes, and estua	\$550.0 ts the spill-wide s s extensive in she rrine habitats at t am concerned w	eltered rocky sl hat time. This	hores, s work	<u>Trustee (</u> Defer. A highly de considere Primary v	sirable, this d in the con value of this	re information or is an expensive, text of other requ work is docume	n recovery of intertion new commitment, we uests for new project ntation of injury and Monitoring was last	vhich must be t support. l recovery,
													\bigcirc
transplantin southern por	Sea Otter Transplantation/Clam Restoration seeks to restore clam populations in the Cordova g roughly 300 sea otters from Cordova to the cent ttions of PWS, followed by restocking razor clam reas. Restocking dungeness crab is also proposed	area by ral and beds with clam	This was mobility s the Calif	of sea otters fornia Depart s would trave	ea rather than makes the ter ment of Fish	\$0.0 n a complete prop chnical approach & Game found t n a week to retur	infeasible. Ef hat some trans	forts by planted		\$0.0 <u>Council Acti</u> nd. This pr		technically feasible.	

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Proj. No.	Title	Lead Agency Pro	FY oposer Req		FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96067-BAA	Juvenile Fish Habitat Identification and Assessment	DOI Mitch	nell/MBC \$4	167.4	\$467.4	\$0.0				\$0.0			
eelgrass beds sampled in o	will sample nearshore habitats for juvenile fish. Is and shallow soft-bottomed coastal areas in PW piled and unoiled areas. The study will help defi unds as well as demonstrate the amount to which ed by oiling.	VS will be ine important	somewhat dupl	ed resou licative (urces has not of work in p	t been made and progress. Future now underway.			Do not fu			k link to restoration cosystem studies.	ı, and would
96072	Status and Potential Recovery of the Black Oystercatcher: An Apex Predator in the Nearshore Environment	DOI I	DOI \$1	157.7	\$157.7	\$0.0				\$0.0			
recovering species and the species and	al questions the current status of the black oyster pecies, and presents a plan of action for improve and evaluation of factors (e.g., demography, oil to ability) that may be limiting recovery of the popu	ed monitoring of toxicity, food,	"recovering," ti results of 1996 NVP project ar in the nearshor recovery of oys	uthors q he point boat sur ce availal te food c stercatch	question the t remains are rveys are con able, which r chain/ecosys ners, a propo	classification of guable. I recommon puplete and prelimation may indicate continues stem. If there is it posal emphasizing use might be appre-	mend deferring minary results tinuing contan indication of la use of artificia	yuntil of the nination .ck of	Do not fu	Council Action and at this tir s recommend	me. Reconsider f	for FY 97 based on	Chief
96086	Herring Bay Monitoring and Restoration Studies	ADFG Highsn	nith/UAF \$1	85.3	\$173.0	\$173.0	\$0.0	\$0.0	\$0.0		7th yr. 7 yr. project	\$173.0	
response to the through the 1 and the assoce Data collected existing Herr	ertidal restoration studies were established in Her he T/V <i>Exxon Valdez</i> oil spill. These studies ha 1994 field season and show continued injury to <i>I</i> ciated invertebrate population, especially in the u ed during the 1995 field season will be incorpora ring Bay database and the rates and extents of re for injured resources.	ve continued Fucus gardneri upper intertidal. ated into the	Chief Scientist This is a projec scheduled for F project.	t that w	vas funded fr	rom 1990 throug appears to be hig	h 1995, with cl h for a close-o	lose-out ut	Fund. Pro			is and report writin ee Council.	g only) for

Proj. No.	Title	Lead Agency 1	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December	
96088	Fucus as Structure for Other Organisms	ADFG Ste	ekoll/UAF	\$302.5	\$302.5	\$0.0				\$0.0				
intertidal co variety of o the factors various tech upper intert	alga, <i>Fucus gardneri</i> , is the dominant organism is ommunity where it provides food, foraging areas, ther plants and animals. The goals of this project which have limited the recovery of <i>Fucus</i> population inques to accelerate the recovery of <i>Fucus</i> population (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	and shelter for a are to 1) define ons, 2) test tions in the anisms due to	This pro Herring intertida	Bay intertida	iny of the same studies for ht be appropriate	ne questions that the previous five riate for work in an RFP.	years. This u	pper		Council Acti ind. Lower		r coastal habitat wo	rk at this time. (\bigcirc)	
	abitat throughout PWS that has not recovered.		NOAA	\$209.7	\$205.1	\$205.1	\$0.0	\$0.0	\$0.0	\$205.1	5th vr	\$205 1		
summarizin in PWS and analyses of	this slow recovery of <i>Fucus</i> and 4) define the geographical extent of upper intertidal habitat throughout PWS that has not recovered. 2009 Mussel Bed Restoration and Monitoring NOAA NOAA \$209.7 \$205.1 \$205.1 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$205.1 5th yr. \$205.1 5yr. project Abstract In FY 96 a comprehensive report will be produced synthesizing and summarizing four years of studies on the persistence of oiling in mussel beds in PWS and the Gulf of Alaska and restoration of 12 of these beds. Chemical analyses of mussel and sediment samples collected in 1995 will be completed early in 1996. No new sample collection or site visits are proposed for FY													
96094	Improving Recovery Rates on Shorelines in PWS Using Enhanced Bioremediation	ADEC	ADEC	\$965.6	\$965.6	\$0.0				\$0.0				
PWS shorel shoreline re recommend	project will identify reasons why remaining subst ines has not biodegraded and assess the impact th covery. Based on site characterization and risk, t and test, if appropriate, use of selected non-intru- rcial bioremediation enhancement methods to acc ion.	is is having on he project will sive,	There are factor in doubt tha main pro somethin	the removal on the remaining t	stions as to w of oil from P ing oil is seri oil residue is it.) This stu	whether nutrient s rince William So ously affecting th offensive to loca idy is expensive a	und beaches. he ecosystem. l residents, w	Also, I (The ho want	Do not fu Scientist, interested	community parties to r	er, a workshop wil leaders, agency re	l be held this fall w presentatives, and persisting oil and cleanup.	other	

Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96103-BAA	Whale Forestomach Anaerobic Microbes to Detoxify Oil Spills	NOAA (Craig/OSU	\$170.7	\$170.7	\$0.0				\$0.0			
currently lim anaerobic bac ability to met project: isola activity from	icrobial bioremediation of oil spills in the enviro- nited by oxygen availability. We have preliminar cteria from the forestomach of bowhead whales is tabolize a range of fuel oil components anaerobic ates anaerobic bacteria or bacterial consortia resp this habitat, assesses their ability to detoxify fue and optimizes their growth for use in environme on.	y evidence that have the unique cally. This ponsible for this l oil	This is a microbia might be and deve spills an	al cultures or e applied to the application of	e proposal th other sorts of ne clean-up o ect would mo bes not addre	at could lead to t f biotechnologica f oil spills. Unfo ost likely be appl ss damages or re	al approaches portunately, this icable to future	that s research re oil		Council Acti ind. Propos		ide scope of civil s	ettlement.
96104	Avian Predation on Blue Mussels in Prince William Sound	USFS	USFS	\$127.1	\$155.1	\$155.1	\$130.0	\$120.0	\$60.0	\$465.1	1st yr. 3 yr. project		\$155.1
availability and constraining document the glaucous-win populations a information of	re vertebrate predator project (96025) hypothesiz nd competition for prey, such as blue mussels, co recovery of sea otters and harlequin ducks. This e impact of avian predators, including surf scoter ged gulls, black oystercatchers, and surfbirds on it northwest Montague Island. This project will on the numbers and distribution of avian predato their use of mussels.	puld be project will s, mussel gather	Very res	elp us interpre	scussion in Ja et the results	anuary workshop of the NVP (960 ad integration wit	25) project. I	-	Defer sub of possibi predation	lities for int	ability of funds fo tegration with 960 fully complement 1	or new projects and 025. Information o Nearshore Vertebra	n avian
96106	Subtidal Monitoring: Eelgrass Communities	ADFG Je	wett/UAF	\$239.4	\$250.0	\$250.0	\$0.0	\$0.0	\$0.0	\$250.0	6th yr. 6 yr. project	\$250.0	,
The budget re	would provide funds to write the final report for i effects projected costs of sample analysis, data ar ation. The final report will incorporate and com the 1991.	alysis, and	This is a	ientist's Com close-out pro stigator is do	ject for work	previously funde od job on subtida	ed by the Trus al studies.	stees.		Council Acti ould close or	<u>on</u> 1t work funded in	previous years.	

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96108	Assessing the Effects of EVOS on Mussels and Fish: Using High Resolution Stable Isotope Records	ADFG	Carpenter/UT	\$84.0	\$84.0	\$0.0				\$0.0			
provide a cl populations ongoing con a detailed in and increas	ons of otoliths and mussel and barnacle shells we hemical record of the effects of EVOS on the mu of PWS. Findings will be used to assess the dep ntamination of these resources. These new techn ndicator of natural and anthropogenic stressors of e our knowledge of their physiological activity (of food-source variations and disease).	ssel and fish gree of initial a siques will pro n these organ	to This pr contribution and ovide isms	cientist's Con oposal appear ute little to the	s to have tech	hnical shortcomi program.	ngs and would	d	Do not fi	Council Acti ind. Project on objectives	raises technical	concerns and has w	reak link to
96109-BAA	Decontamination and Restoration Process for Oil-Impacted Mussel Beds	NOAA	Alter/PES	\$551.8	\$551.8	\$0.0				\$0.0			
process to d	t's goal is to develop and validate for implementa lecontaminate and restore oil-impacted mussel be kicity tests of oil-removing agents and field evalu- rocesses.	ds. The proje	ent Clean-u ect followin	ng completion ject, we can a	ssel beds may of 96090. C	y or may not be a Drice the Trustees d for further wor	s have a final	report on				uld be considered af	ter review of
96160	Assessment of Recovery from Surface Oiling, Subsurface Oiling, and Subsurface Invertebrate Contamination by Oil on Gulf of Alaska Shorelines	DOI	DOI	\$129.7	\$129.7	\$0.0				\$0.0			\bigcirc
sites, respectively monitor its	t would assess and monitor surface and subsurface ctively. It will document subsurface oil through weathering using an innovative system of collect widespread invertebrates living within the beac	excavations ar	d 10 It is not nd Alaska appropr	Peninsula is v iate organism	ntinued conta very widesprease is for monitor	mination of the o ad. Amphipods ring hydrocarbon The utility of we	are not very accumulation	n;	Do not fu Scientist, interested	community I parties to re	ar, a workshop w leaders, agency	vill be held this fall representatives, and of persisting oil and d cleanup.	other

Amphipods, widespread invertebrates living within the beach substrate, will be monitored for tissue contamination by buried hydrocarbons.

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96161	Harlequin Duck - Indicator Species for Ecological Monitoring and Recovery	DOI	DOI	\$230.4	\$98.0	\$98.0	\$0.0	\$0.0	\$0.0	\$98.0	lst yr. 2 yr. project		\$98.0
affected by the harlequin due	in duck is an important ecological indicator in i the oil spill. This proposal will address the hypo uck population distribution and abundance, proc al condition have been impacted in oiled areas o	otheses that luctivity and	This pil the mov Price W provide	vement of harl villiam Sound. a better under be considered	uld test the eff equin ducks t There is ext rstanding of h	fectiveness of sate between Kodiak/ tensive cost shar harlequin ducks context of the tot	Alaska Pening ing by DOI. I in the spill are	sula and it could ca, but it	Defer. N harlequin Informati Kenai cos based on	ducks and on on intere ast, etc. will	review in relation two ongoing harle change among harl help develop a ha erstanding of the b	quin projects (960 lequin duck popul rvest managemen	25 and 96427). ations in PWS, t strategy that is
96290	Hydrocarbon Data Analysis, Interpretation, and Database Maintenance	NOAA	NOAA	\$119.8	\$116.1	\$116.1	\$121.0	\$120.0	\$470.0	\$827.1	5th yr. 11 yr. project	\$116.1	
managemen Subsistence into the Trus and manage will allow ea	is a continuation of the NRDA and Restoration at, hydrocarbon interpretation and sample storag response and restoration data will continue to be stee hydrocarbon database. A summary report for swill be produced with an electronic copy of the asier access to this information. New user group tified, and tailored user interfaces will be general	e service. e incorporated or investigators le database, that os of the database	This is a projects and corr	, both past and	roposal. The l present, tha	work is necessa t continue to fac nental hydrocart	e the task of o	he many btaining	Fund. Pr Trustee C available	ouncil fund	coing analysis of hy ed studies. This p tific community ar	roject will make t	hese data
96427	Harlequin Duck Recovery Monitoring	ADFG	ADFG	\$261.1	\$261.1	\$261.1				\$261.1	3rd yr. 4 yr. project	\$51.0	\$210 I
areas based of Shoreline bo population si between year	will compare population parameters between oi on population structure, behavior, production, an oat surveys will be conducted simultaneously. C ize, structure, and production in oiled and unoil rs will be compared. Continued population mon allow us to assess trends and suggest factors lim	nd growth rates. hanges in ed areas and itoring and broo	Surveys without should b project.	statistical just be made later. This request	lucks are a hi ification, a de Three more	gh restoration p ecision on work years of effort an rk should be exa	for 1997 and l re proposed fo	beyond r this	Fund inter report fro future year of studies This infor can be lift	m prior year rs after revi focusing or mation will ed and whe	on efer decision on ba r (Project B11) is s ew of FY 96 work a injury to and reco help determine w ther additional act e necessary.	ubmitted. Conside . This project con overy of harlequin hen current harve	er funding for tinues a series ducks in PWS. st restrictions

FY 96 WORK PLAN -- TRUSTEE COUNCIL 8/25/95 ACTION 9/1/95 DRAFT/PAGE 30 Total FY FY 96 FY 96 Total FY 99 Lead FY 96 96 to end Project Revised Approved/ FY97 FY 98 to end Approved Request Estimate Estimate Proj. No. Title Agency Proposer Estimate Request Deferred Estimate Duration 8/25/95 Seabird/Forage Fish Ecosystem Project \$1,982.6 \$1,982.6 \$1,982.6 \$1,964.0 \$2,200.0 \$8,110.6 \$1,964.0 \$250.7 .-APEX: Apex Predator Ecosystem 96163 \$1,964.0 \$1,964.0 \$2,200.0 \$6,128.0 2nd yr. Experiment in Prince William Sound and the 5 yr. project Gulf of Alaska

Chief Scientist's Comments

Deferred

Decision to

December

\$1.731.9

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Trustee Council Action

Defer pending a project review with the Chief Scientist (fund interim).

Project addresses the "is it food?" hypothesis for several seabird species

fisheries management decisions, particularly if commercial interest in

fisheries for capelin and other small, oil-rich species was to emerge.

that are in continuing decline. This information could help inform future

Abstract

This study will use seabirds as "probes" of the trophic environment of PWS and compare their reproductive and foraging biologies with similar measurements from the Barren Islands, an area with more suitable or abundant food. Measurements will be compared with hydroacoustic and net samples of fish to calibrate seabird performance with fish distribution and abundance. The project will use fish samples to compare diet, energetics and reproductive parameters of different forage-fish species to determine whether competitive and predatory interactions or different responses to the environment may be favoring the abundance of one fish species over another.

96163A	Abundance and Distribution of Forage Fish and their Influence on Recovery of Injured Species	NOAA	NOAA	\$711.2	\$711.2	\$711.2	\$711.2	2nd yr 5 yr project	\$6.8	\$704.4
Abstract See 96163.			<u>Chief S</u> See 961	cientist's Comr 63.	nents		 Trustee Council Act See 96163.	ion		\bigcirc
96163B	Foraging of Seabirds	DOI	DOI	\$138.7	\$138.7	\$138.7	\$138.7	2nd yr 5 yr project	\$25.2	\$113.5
Abstract See 96163.			<u>Chief S</u> See 961	cientist's Comr 63.	nents		Trustee Council Act See 96163.	ion		
96163C	Fish Diet Overlap Using Fish Stomach Content Analysis	NOAA	NOAA	\$133.1	\$133.1	\$133.1	\$133.1	2nd yr 5 yr project	\$41.7	\$91.4
<u>Abstract</u> See 96163.			<u>Chief S</u> See 961	<u>cientist's Comn</u> 63.	nents		Trustee Council Act See 96163.	ion		

Project to be subject of detailed review in November 1995, as voted by the

Trustee Council in approving the FY 95 startup of this project.

Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96163D	Distribution of Forage Fish as Indicated by Puffin Diet Sampling	DOI	DOI	\$72.3	\$72.3	\$72.3				\$72.3	2nd yr 5 yr project	\$12.0	\$60.3
Abstract See 96163.			Chief S See 96	Scientist's Con	<u>nments</u>				Trustee (See 9616	Council Act 3.	<u>ion</u>		
96163E	Black-legged Kittiwakes as Indicators of Forage Fish Availability	DOI	DOI	\$181.8	\$181.8	\$181.8				\$181.8	2nd yr 5 yr project	\$30.6	\$151.2
Abstract See 96163.			Chief S See 961	cientist's Con	<u>iments</u>				Trustee (See 9616	Council Act	<u>ion</u>		۱ ۲۰۰۰
96163F	Factors Affecting Recovery of Pigeon Guillemot Populations	DOI	DOI	\$197.8	\$197.8	\$197.8				\$197.8	2nd yr 5 yr project	\$30.6	\$167.2
<u>Abstract</u> See 96163.			<u>Chief S</u> See 961	cientist's Com 63.	<u>iments</u>				<u>Trustee (</u> See 9616	Council Acti 3.	<u>ion</u>		
96163G	Diet Composition, Reproductive Energetics, and Productivity of Seabirds	NOAA	Roby/UAF	\$186.5	\$186.5	\$186.5	:			\$186.5	2nd yr 5 yr project	\$3 .8	\$182.7
<u>Abstract</u> See 96163.			Chief S See 961	cientist's Com 63.	ments				Trustee (See 9616	Council Acti 3.	ion		
96163H	Proximate Composition and Energetic Content of Selected Forage Fish Species in PWS	NOAA	Texas A&M	\$44.6	\$44.6	\$44.6				\$44.6	2nd yr 5 yr project		\$44.0
Abstract See 96163.			<u>Chief S</u> See 961	cientist's Com 63.	ments				Trustee C See 9616	Counci' Acti 3.	ion	-	
961631	APEX Planning and Project Leader	DOI	DOI	\$124.2	\$124.2	\$124.2				\$124.2	2nd yr 5 yr project	\$56.9	\$67.3
<u>Abstract</u> See 96163.			<u>Chief S</u> See 961	<u>cientist's Com</u> 63.	<u>ments</u>				<u>Trustee (</u> See 9616	Council Acti 3.	on		

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96163J	Barren Islands Seabird Studies	DOI	DOI	\$98.7	\$98.7	\$98.7				\$98.7	2nd yr 5 yr project	\$20.5	\$78.2
Abstract See 96163.		· · · · · · · · · · · · · · · · · · ·	<u>Chief S</u> See 961	<u>cientist's Com</u> 63.	ments				Trustee C See 96163	Council Act 3.	<u>iőn</u>		
96163K	Using Predatory Fish to Sample Forage Fish	DOI	DOI	\$20.4	\$20.4	\$20.4				\$20.4	2nd yr 5 yr project	\$4.7	\$1 ()
<u>Abstract</u> See 96163.		•	Chief See 961	cientist's Com 63.	ments			·	Trustee C See 96163	Council Acti 3.	<u>ion</u> .		
96163L	Historical Review of Ecosystem Structure in the PWS/GOA Complex and Abundance and Distribution of Forage Fish in the Barren Islands	DOI	DOI	\$73.3	\$73.3	\$73.3				\$73.3	2nd yr 5 yr project	\$17.9	\$55.4
<u>Abstract</u> See 96163.			Chief So See 9610	cientist's Com 63.	ments				<u>Trustee C</u> See 96163	ouncil Acti	<u>on</u>		
1	age Fish Related Projects mendation: See Seabird/Forage Fish Ecosystem .	Project.		\$1,685.0	\$1,419.2	\$795.6	\$321.6	\$103.9	\$458.5	\$1,679.6		\$507.6	\$288.0
96021	Seasonal Movements and Pelagic Habitat Use by Common Murres and Tufted Puffins	DOI	DOI	\$166.3	\$121.3	\$121.3	\$121.3	\$20.0	\$0.0	\$262.6	2nd yr. 4 yr. project	· · · · · · · · · · · · · · · · · · ·	\$121.3
Valdez oil sp after the oil s suitable forag population re	rres were the bird species most heavily impacted b ill. The failure to recover documented in this spec pill may be related to a long-term decline in the ar- ge. Tests of hypotheses concerning food limitation covery and the application of puffins as fish samp on the foraging ranges and feeding areas of birds f	vies 5 years vailability of on murre lers require	This is a new info tufted pu project.	ormation on di offins. The wi The results of	cientific stud ving behavio nter location the 1995 pil	y that promises t r and foraging ra of murres may b ot study and the to committing fu	nge of murres e identified by first year of th	s and y this he APEX	Defer pend this work t recommen interpret h fish in terr seabirds. could lead	to objective ad funding o hydroacoust ns of wheth Will also es	mber review and a s in 96163, the A only common mun ic data on the dist her those fish are stablish wintering tification of resto	clearer sense of the PEX project. If fun- rre component. Proj tribution and abunda actually available to areas of common m ration measures to n	ded, ect could help ince of forage foraging uurres, which

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96031	Development of a Productivity Index to Monitor the Reproductive Success of Marbled and Kittlitz's Murrelets in Prince William Sound, Alaska	DOI	DOI	\$254.6	\$117.6	\$117.6	\$50.0	\$39.9	\$0.0	\$207.5	2nd yr. 4 yr. project	\$67.6	\$50.0
Kittlitz's mu seabirds car productivity the timing a coastal and monitoring	will develop a means to monitor the productivity irrelets. The reproductive success of these two r is not be monitored using standard techniques. T survey protocol, murrelets will be surveyed at s and abundance of juveniles, the ratio of juveniles marine features that best predict juvenile abundar murrelet productivity in relation to population to lly be used to determine what factors influence r	on-colonial o develop a ea to determine to adults and the nce. By rends, this inde	d An ind restoral marble for fund te	tion program.	murrelet pro In addition, rk need to be	ductivity is a dest results of past Tr synthesized and ata.	ustee-sponsor	red	Fund clos Defer dec	Council Act e-out of FY ision on ne eview in No	7 '95 work and syn	thesis of prior mur s in FY 96 pending	relet studies. g the APEX
96038	Publication of Seabird Restoration Workshop	DOI Pa	ac Seabird Gr	\$31.0	\$15.0	\$15.0	\$0.0	\$0.0	\$0.0	\$15.0	2nd yr. 2 yr. project		\$15.0
workshop in restoration. of seabird re founded on t proposal see	Council has funded the Pacific Seabird Group (September 1995 to bring together experts in sea It will include discussions of the theoretical and storation and provide recommendations for resto the best available scientific information and opir ks funds for the writing and publishing of manu- g the workshop discussions.	bird biology an practical aspec pration plans ion. This	The res d public. ts pending perhaps to prepa	I don't recom g review of a T s with a match	rkshop should mend fundin Table of Cont ing requirem public inform	d appear in print g at the amount r ents, I could supp tent. Also needs ation materials for nce.	equested. Ho port a lesser a to make great	wever, mount, er effort	Defer dec	Council Act ision pendi ine whethe	ion ng review of result r additional report	ts of September wo	orkshop (95038)
96101	Removal of Introduced Foxes From Islands	DOI	DOI	\$88.9	\$8.4	\$8.4	\$0.0	\$0.0	\$0.0	\$8.4	3rd yr. 3 yr. project	\$8.4	
oystercatche increase by r it is outside t particularly	of three species of birds injured by the oil spill (r, pigeon guillemot and common murre) will be emoving introduced arctic foxes from Seguam I he area directly affected by the oil spill, Seguan high potential for restoring populations of these stantial amounts of habitat and remnant populat resent.	allowed to sland. Although Island has a species because	I have s techniqu h Target s replacer it measure	ue. One issue species were ir nent/equivaler	removal as a is that Segua njured by the nt resource ba	highly effective t am Island is far fi spill, but would asis. Every oppo should be used.	rom the spill z have to be jus	zone. tified on	Fund clos		ion or work (95041). enefit to spill-affec		

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96120-BAA	Proximate Composition and Energetic Content of Selected Forage Fish Species in Prince William Sound, AK	NOAA Wo	orthy/TXAM	\$40.9	\$40.9	\$0.0				\$0.0			
Abstract Chief Scientist's Comments Trustee Council Action This study will provide the data necessary for interpreting food web dynamics and ecology of the "apex" predators of PWS. In any long-term study of foraging ecology, especially those investigating the recovery of impacted species, knowledge of prey species composition and energetic value is critical in the interpretation of consumption rates and therefore the impact of consumer species upon prey species stocks. Compositional analysis will also yield important information on the general quality of the environment by assessing the condition of important prey species. Chief Scientist's Comments Trustee Council Action													
96122	Mapping Potential Nesting Habitat of the Marbled Murrelet in Prince William Sound Using Habitat Models Linked to Geographic Databases	USFS	USFS	\$168.8	\$123.0	\$0.0				\$0.0	1st yr. 2 yr. project		
by linking ha site character containing ne	would identify potential habitat of the marbled mubitat models to geographic databases of vegetation istics. Areas identified as having a high probabilitiesting habitat could become focal areas for planning to favor maintenance of murrelet habitat.	n and physical lity of	This cou the murr murrelet		ortant project	t, but I have quest abitat model need			Do not fu Trustee-s Resulting and carry the spill a deferring with priva scale of th	ponsored stur maps of politing out timburea. However this project ate land own me resulting	oject would summ idies on marbled in tential murrelet have harvests that cover, the Public Ad- until there has be hers. There also a	narize several years murrelet nesting has abitat could be use ould impact marble visory Group recor en greater advance re questions about iciently large to ass nd.	bitat. Ful in planning ed murrelets in nmended consultate whether the

Proj. No.	Title	Lead Agency P	roposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December	
96142-BAA	Status and Ecology of Kittlitz's Murrelet in Prince William Sound	NOAA AI	BR, Inc.	\$110.2	\$168.7	\$168.7				\$168.7	1st yr.	\$168.7		
rare seabird b The study wi little known s northwestern species, a bet	would investigate the status and ecology of Kittli breeding in glaciated fjords of Prince William So ill evaluate the abundance, distribution, and prod seabird and assess its habitat use and feeding hab a PWS. Given uncertainty about the effects of the ter understanding of its status and ecology is req conservation.	und (PWS). uctivity of this its in oil spill on this	This is a injured o that this restoratio backgrou year to a	of any by the s project is just on actions. T and in alcid b ssess progress	roposal on a l spill. Our kn tified. This p he investigat iology. The s and whethe	bird species that owledge of this oroject may be us or is well qualifi study should be r the mapping w on the ground.	species is so s seful for disco ied with an ex reviewed after	ketchy vering tensive the first	Fund FY Kittlitz's proportio by the oil	Murrelet hat nate to that spill. This own seabire	ure years' fundin s a small world- population, it ma study will gathe	ng dependent on FY wide population, an ay have been the spo r basic information d to identification o	d, ecies hardest hit on a rare,	
96143-BAA	Recovery of Bird and Mammal Populations in Prince William Sound After the Exxon Valdez Oil Spill	DOI AF	BR, Inc.	\$321.2	\$321.2	\$0.0				\$0.0				
injured in the conducted in conduct three habitats and y	ill assess the status of recovery of bird and mamn e aftermath of the Exxon oil spill and is an extens Prince William Sound in 1989-91. The project p e surveys each year during 1996-98 in nearshore a will assess recovery based on wildlife use of oil-a on status relative to prespill levels.	tion of a study proposes to and offshore	This proj populatic proposal look at p the time-	ons being carr is very profes opulation reco	y duplicates t ried out by th ssional and a overy over th ed by the gov	he boat surveys e USFWS (9615 ctually has the a e USFWS, we w vernment since 1	59). Although dvantage of a yould have to a	the broader	Do not fu	Council Acti and. Cannot g funding o	justify support f	or this new survey w	while	
96144	Common Murre Population Monitoring	DOI	DOI	\$101.7	\$101.7	\$101.7	\$125.3	\$44.0	\$458.5	\$729.5	1st yr. 3 yr. project		\$101.7	
series of index This objective document the location will l portion of it v portion of the	s designed to determine whether common murre x colonies within the area affected by the oil spill e will be accomplished by counting murres at all presence or absence of post-spill population tren be surveyed every 3 years, but the field work is p will be accomplished annually (i.e. colonies in the spill zone will be surveyed in FY 96, central col X 97, and the eastern-most colonies will be visited	This is a program programs	<u>Chief Scientist's Comments</u> This is a solid continuing study that is an integral part of the restoration program to monitor recovery of murres. However, all '96 monitoring programs are to have done a power analysis to determine the appropriate frequency of sampling. This proposal lacks a power analysis.						<u>Trustee Council Action</u> Defer. Approval subject to availability of funds. Project can be deferred until FY 97 with no harm to the injured resource. The results of the power analysis should be included in future proposals.					

Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96148	Kittlitz's Murrelet: Biology, Abundance, and Population Genetics	DOI	DOI	\$99.8	\$99.8	\$0.0				\$0.0			
data to asses and, 2) con	will 1) compile and analyze available unpublish is the abundance and distribution of Kittlitz's Mu duct original research on the breeding biology, p and population genetics of Kittlitz's Murrelet in	urrelet in Alask elagic	ned Kittlitz a, Counci	l restoration p	re a species the rogram. How	hat is of great int wever, the design etter proposal be	n is not sufficer	ntly	Do not fr	Council Acti and. Cannot AA, which i		or this project while osal.	e also starting
96159	Surveys to Monitor Marine Bird Abundance In Prince William Sound During Winter and Summer 1996	DOI	DOI	\$262.9	\$262.9	\$262.9	\$25.0			\$287.9	1st yr. 2 yr. project	\$262.9	
birds and see have observe collected in from winter changed at t	to conduct small boat surveys to monitor abunda a otters in PWS during March and July 1996. Pr ed >65 bird and 8 marine mammal species in PW 1996 will be used to examine trends from summ 1990-96 by determining whether populations in he same rate as those in the unoiled zone. Over WS from 1989-96 also will be examined.	revious surveys VS. Data er 1989-96 and the oiled zone	This is surveys 85. The of detect propose analysis	have been do e proposers ha ting change in a biannual mos s, but future co between mon	al for monito ne since 198 ave done a po n populations onitoring sch ommitments	oring seabirds an 9 and there are s ower analysis that s with infrequent redule appears re should be review ed resources and	imilar data from the indicates a local the sampling. The asonable in light wed with regard	m 1984 - w power le ght of the	Fund for evaluated	when prope	ing cycle only. I osed. The survey	Future monitoring v s provide basic info of marine birds (and	ormation on
96175	Remote Video System Seabird Monitoring Project	DOI	DOI	\$38.7	\$38.7	\$0.0				\$0.0			\bigcirc
system to ren time budget, seabirds mon colonies with that was desi Islands in FY	will test the ability of a robotically controlled vid notely collect real-time productivity, nesting chr and chick feeding rate data on common murres e accurately and at lower costs than current met a difficult access. The proposal is based on a pro- gned and successfully tested in Kachemak Bay a <i>X</i> 94. Data will be collected both remotely and n plots using the same basic methods in conjunction	onology, adult and other hods allow at ototype system and the Barren nanually on the	The pro to restor apparen given ez some de	ration (assessi at recovery. T recovery of equi	of a promisin ng murre pro he cost effect pment and a	ng technology is oductivity) is not iveness of this p ssociated technic ibsorbed in other	compelling gives roject was quest the competence of the competence	ven the stionable	Do not fu	Council Action nd at this tin monitoring		d be reconsidered in essary.	n the future if

Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
Subsistence PAG Reco need to be	ommendation: The PAG recommends approve	al of a budget of ap	proximately	\$2,602.6 \$1.3 million, as i	\$2,594.0 recommended	\$1,564.6 d by staff. (The	\$1,404.3 discussion ind	\$1,108.8 licated that j		8 \$5,672.5 nay be appr		\$878.4 c projects and bud	\$686.2 Igets may
96009D	Survey of Octopuses in Intertidal Habitats	S USFS	PWSSC	\$134.0	\$134.0	\$134.0	\$40.9	\$0.0	\$0.0	\$174.9	2nd yr. 3 yr. project	\$37.2	\$96.8
EVOS and establish th study sites, vertical dis	et addresses concerns that octopus and chiton that subsistence uses are impaired. The first the feasibility of working on octopus in the Sou and evaluate techniques. The second year (F tribution of octopus in the nearshore where the costs are requested in the third year (FY97).	year (FY95) is to ind, identify suitable Y96) will focus on a	by Defer	<u>f Scientist's Com</u> r decision until r		95 field season	available.		Defer dec interim).	Project is d	results of FY 95 filesigned to address	eld season are avai concern that octop subsistence uses ar	ous and chiton
96052	Community Involvement & Use of Traditional Knowledge	ADFG	CRRC	\$210.0	\$261.0	\$261.0	\$250.0	\$250.0	\$1,000.0	\$1,761.0	2nd yr. 8 yr. project	\$261.0	
(CRRC), wi encourage a researchers and residen	t, submitted by the Chugach Regional Resour ill continue a program begun in FY 95. This and facilitate communication among the Trus working on oil spill restoration projects, regi ts of communities impacted by the oil spill.	s project will tee Council, onal organizations The goal is to make	Addr EVO	f Scientist's Com esses needed rest S scientists and o	toration work	by furthering inembers.	interactions bet	tween	Fund. Thand intera	action amor	vill continue a prop	gram to facilitate c incil, scientists, an	ommunication d residents of
96052B	Community Interaction/Traditional Knowledge	ADFG	ADFG	\$298.3	\$298.3	\$0.0				\$0.0			
program to Council, res organization goal is to m	t, submitted by Subsistence Division/ADFG, we encourage and facilitate communication amo searchers working on oil spill restoration proj ns and residents of communities impacted by ake optimal use of the complementary nature nal knowledge.	ng the Trustee ects, regional the oil spill. The	<u>Chie</u> See 9	<u>f Scientist's Com</u> 66052.	<u>ments</u>					Council Acti nd as separ	<u>on</u> ate project. See 96	5052.	

Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to Dec ember
96127	Tatitlek Coho Salmon Release	ADFG	Tatitlek IRA	\$52.7	\$26.6	\$26.6	\$15.9	\$15.9	\$15.9	\$74.3	2nd yr. 5 yr. project	\$26.6	
Enough col approved st Hatchery, tr before relea	create a coho salmon return to Boulder Bay to eggs to produce 20,000 smolts will be collect ream, incubated and reared to smolt at the So ransported and held for two weeks in net pena- se. Release will produce a 2,000 to 3,000 ad vest in a subsistence fishery.	cted from an ADF lomon Gulch s in Boulder Bay	ge. Excelle &G Counci (approx		hnically sour ild be limited	nd, highly feasible to maximum of			Fund. Fr salmon r	un near Tati	ars (one coho life o	cycle). Project will then tresource for su	create a coho bsistence
96131	Chugach Native Region Clam Restoration	ADFG	ChugachRRC	\$405.6	\$405.6	\$405.6	\$413.6	\$417.4	\$417.4	\$1,654.0	2nd yr. 6 yr. project		\$405.6
Nanwalek, (to restore di Seward will and, if possi agency expe	am populations near the Native villages of Po Chenega Bay, Tatitlek, Eyak and Ouzinkie w minished subsistence opportunities. The Qu annually provide about 800,000 juvenile litt ible, butter clams for seeding. Historical info ertise, and research will be used to identify ar ed. Total seeded area will not exceed 5 hecta	ill be re-establishe tekcak hatchery in leneck clams, cock rmation, local and eas to seed and	I recom d before I potentia les populat	FY 96 funding al. Environme	re be a late a g is approved ental assessm review produ	utumn/early wind l. Very promisin ent (EA) should uction capacity of	g project; good consider sea of	l tter	Defer dec establish	subsistence	ng results of FY 9 clam populations	95 field season. Pro near several Native njured by the oil sp	villages as
community	Port Lions Community Hall d match \$175,000 requested from the State L hall. Funds for the community hall were rec re lost, as no manpower was available for cor	eived prior to the o	No link	\$150.0 cientist's Com to restoration		\$0.0				\$0.0 Council Action nd. No link		an injured natural i	() resource.
96204	Kodiak Subsistence Resource Restoration Planning	ADFG	ADFG	\$39.4	\$39.4	\$0.0				\$0.0			
planning eff Projects 944 resource res	would implement a more intensive subsistent fort in Kodiak Island Borough communities a 28 and 95428. The goal would be to develop toration proposals for consideration in the F 11 include several workshops and a series of c	a follow-up to a coordinated set (97 work plan.	tion Some fu on unde of	cientist's Com orther plannin er this project	g seems justi	fied. However, s 52.	uch planning s	should go		council Action nd as a sepa		ctives can be integ	rated into

<u>FY 96 V</u>	WORK PLAN TRUSTEE COUNCIL	8/25/95 AC	<u>CTION</u>								<u>9</u> /	/1/95 DRAFT/F	PAGE 39
Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision t December
5205	Eyak Subsistence Recovery Camp Planning Project	DOI	Eyak Nat Vill	\$40.8	\$40.8	\$0.0				\$0.0			
Abstract			Chief S	cientist's Con	ments				Trustee (Council Acti	07		
ubsistence 1992), Post nvironmen Vith the res	t would plan for a Subsistence Recovery Camp for users affected by the oil spill. As identified by Pi t-Traumatic Stress Syndrome is directly linked to ntal damage done by the oil spill and the subsisten sults of the oil spill still being felt by the commun ed abundance of specific species, there has been an chaviors.	cou and Gill the ce way of life. ities through 1	for othe	s to be worthw r funding.	vhile idea; ha	is worked in othe	r localities. (Consider			propriate for civil ding, since idea i	l settlement funds. is worthwhile.	Recommend
206	Old Harbor Lagoon (Midway Culvert) Salmon Enhancement Feasibility Study	ADFG	Old Harbor	\$28.8	\$28.8	\$0.0				\$0.0			
<u>bstract</u>			Chief Se	cientist's Com	ments				Trustee (Council Acti	on		
f Old Harbo almon enha otential for oho salmon uis system o	wards restoring subsistence uses and resources at or, this project will determine the feasibility for c ancement for the Old Harbor lagoon system, by ev r improving the early marine rearing opportunitie n. It will evaluate the utility of raising the culvert empties into Sitkalidak Straits to a level which we ater retention in the lagoon and thus increase the	who and chum valuating the s for chum and through which ould provide	1	needs further	refinement a	nd greater detail.			Do not fu Trustee (und at this tin Council staff	me. Proposer ma to strengthen a f	ay want to work with auture version of the	th agency and is proposal.
207	Ocean Beach Sockeye Enhancement Feasibility Study	ADFG (Old Harbor	\$92.7	\$92.7	\$0.0				\$0.0			
bstract			Chief So	cientist's Com	ments				Trustee (Council Action	on		1
f Old Harbo	wards restoring subsistence uses and resources at or, this project will determine the feasibility for so at for the Ocean Beach Lake System, located on the	ckeve salmon	y Significa	ant questions	raised by this	proposal. Wou to address/mini	ld create subs mize risks is l	tantial low.				t questions about ri	sk to native
itkalidak Is ock status o quirements	sland. Feasibility determination efforts would for data, identifying minimum and optimum escapen s for natural production, and investigating the fea vild production from this system.	us on collectin	g		2								

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Proj. No.	Title	Lead Agency Pro	FY 96 poser Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96208	Kempff Bay Sockeye Enhancement Feasibility Study	ADFG Akhi	ok City \$70.7	\$70.7	\$0.0				\$0.0			
of Akhiok, t enhancemen southern Ko stock-status requirement	wards restoring subsistence uses and resound his project will determine the feasibility for the Akhiok Village Lake System, loo diak Island. The feasibility study would f data, identifying minimum and optimum s for natural production, and investigating wild production from this system.	or sockeye salmon cated at Kempff Bay on focus on collecting escapement	Chief Scientist's Con Significant questions risks to native specie	raised by this	proposal. Wornity to address/	uld create subs minimize risk	tantial s is low.		Council Action and. Project		questions about ris	sk to native
in research j and other E' youth regard research/res	Prince William Sound Youth Area Wat m Chenega Bay, Tatitlek and some outlyin projects identified by the Prince William S VOS researchers. The objective is to incre- ting the effects of the oil spill and encoura toration. Students will be involved in ocea- bird and mammal observations, pristane/m ies.	ng areas will participate Sound Science Center ease the awareness of age their involvement in anographic testing, fish	ch RRC \$233.4 Chief Scientist's Com A solid proposal for a aspects of the restorat proposal.	pilot project	\$115.0 to involve local Well presented	\$100.0 youth in the s and integrate	\$100.0 cientific d	Fund as a project un	Council Action pilot project til legal and	t. However, no fi budget review a	\$115.0 unds should be sper re complete, liabilit from the Executiv	v concerns are
96211	Community-Based Harbor Seal Biologi Sampling Program	cal ADFG AN	HSC \$44.0	\$44.0	\$0.0				\$0.0			
seals from si implemented instructional trained for c to Anchorag would be dis	ct for collecting biological samples from s x communities of PWS and lower Cook In l, and evaluated. "User-friendly" data coll video would be produced. Village-based ollecting samples taken by hunters and tra e for further sampling and transport for an seminated by the Alaska Native Harbor Se rough a newsletter network.	nlet would be designed, lection forms and an technicians would be ansporting these samples nalysis. Findings	Chief Scientist's Com Good approach to add and trends of harbor s 96244.	lressing the pr	oblem of lack on nmunity involv	of information ement. Integr	on status ate with	<u>Trustee C</u> See 96244	ouncil Actio	<u>m</u>		

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Proj. No.	Title	Lead Agency Pro	poser	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96212	Restoration of Subsistence Shellfish Consumption: A PSP Screening Program	ADFG Kodia	ık Tribal	\$167.7	\$167.7	\$167.7	\$178.3	\$151.3	\$0.0	\$497.3	1st yr. 3 yr. project		\$167.7
shellfish (cla the oil spill, have created proposal add participation	users in the Kodiak Island Borough probably con ams and crabs) per capita than any other region of numerous cases of severe paralytic shellfish pois I fear about the safety of consuming these tradition iresses the health concerns of subsistence users to in a systematic testing program. Faster lab rest umber of cases of PSP and save lives.	of Alaska. Since oning (PSP) onal foods. This prough active	Excellent 1) the tin	ne to perfect	erit. Howeve the assay is c	er, there are seve onsiderable and tiple saxotoxin st	hiring plans n	ncluding eed to be	Defer dec developm for a tran legal que subsisten	ent of chemisition to not stions about ce users' con	outstanding questi nical assay is unce n-Trustee Council agency liability.	ons can be answer rtain, plus need to funding. In addit This project will in esources injured by s, are safe to eat.	develop plan ion, there are crease
research and health of the Commission traditional an Natives; info	Alaska Native Harbor Seal Commission goal is to involve Alaska Natives directly in the monitoring process and to help find solutions to injured species. Goals of the Alaska Native Hat include: educating and informing the public an ad contemporary relationship between harbor sea sorming scientists about the type and extent of kno about the harbor seal; involving Alaska Natives ment process.	harbor seal restore the bor Seal d scientists on the ils and Alaska wiedge held by	Proposal concern a	bout the app	proach to har	\$0.0 bor seal manages of the Trustee Co mission.			Do not fu to provide	e operating	arate project. It is a support for a state	not appropriate for wide commission, ntracted to the com	but some of
96214	Documentary on Subsistence Harbor Seal Hunting in PWS	ADFG Tatitle	Village	\$74.5	\$77.4	\$77.4	\$0.0	\$0.0	\$0.0	\$77.4	lst yr. 1 yr. project	\$77.4	
of harbor sea hunting inclu- harbor seals. restoration of	of this project is to make a documentary on subs ls in PWS. This video will document all facets of iding the ecological and biological knowledge he By documenting this knowledge, the project wi f the seal population by providing an indigenous n harbor seal ecology.	of harbor seal inters use to hunt ll enhance the	Project is communi	ties, and will	idea. Will d	irectly serve the ation of harbor s cisions about the	eals by allowing		<u>Trustee C</u> Fund.	Council Acti			

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• Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96218	Ouzinkie Clam Restoration Project	ADFG	Ouzinkie Tribe			\$0.0				\$0.0			
Abstract		Ť.A.		Scientist's Con					Trustee (Council Acti	on		
use in the C community levels since	t will begin to reestablish local clam populations buzinkie area. Clams were once a major subsiste of Ouzinkie, but local clam populations have dea the oil spill. Additionally, due to food safety con ribute to this community's subsistence harvest.	nce food in the reased to low	e	ates 96131; co	onsider as par	t of 96131.			Do not fu	nd as separa	ate project. Objecti	ives are already in	ncluded in 96131.
96220	Eastern PWS Wildstock Salmon Habitat Restoration	USFS	Eyak Nat Vill	\$77.2	\$85.1	\$85.1	\$115.0	\$12.0	\$0.0	\$212.1	1st yr. 3 yr. project	\$85.1	
Abstract				Scientist's Con					Trustee (Council Acti	on		
by increasin Instream fis of log struct	will replace lost subsistence services resulting fing in wild salmon production in eastern Prince Will heries habitat improvement techniques, primarily ures, will be employed by local subsistence users f selected streams to produce additional salmon.	iam Sound. y the installati	guideli	ommunity inv nes on fish suj	olvement. Copplementation	ompatible with T	Frustee Counci hnically.	1	The proje to do the competiti	ct proposal work. How ve process.	becific funding mec was submitted by a ever, the project ma This project will re increasing wild sal	a private entity wh ay be awarded three place subsistence	o would like ough a services lost
96222	Chenega Bay Salmon Restoration Anderson Creek	USFS	Chenega IRA	\$17.1	\$16.1	\$16.1	\$56.4	\$0.0	\$0.0	\$72.5	1st yr. 2 yr. project		\$16.1
Abstract				Scientist's Con					Trustee C	ouncil Acti	<u>on</u>		-
salmon, and placement o of the way u village. Add	will open up additional spawning areas for pink rearing habitat for coho salmon, in Anderson C f a fish pass on a six-foot barrier falls located ab p the stream. Anderson Creek is located adjacer ditional salmon produced from increased spawni lost subsistence opportunities in the village.	reek through out one quarter at to Chenega I	consists r benign Bay fish poj	s primarily of [habitat impro with low risk	olving habitat alt ovement and app of failure. Reco er.	ears to be relat	ively	Defer dec population	ision until to	echnical questions : ssed.	regarding assessm	ent of fish

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96225	Port Graham Pink Salmon Subsistence Project	ADFG	Port Graham	\$88.9	\$95.3	\$95.3	\$83.1	\$77.2	\$161.5	\$417.1	1st yr. 5 yr. project	\$95.3	
Graham are hatchery. B traditional s now heavily	will help supply pink salmon for subsistence use a during the broodstock development phase of the ecause local runs of coho and sockeye salmon, wi almon subsistence resources, are at low levels, pin relied on for subsistence This project will help e ain available for subsistence use until the more tra- ted.	Port Grahan nich are the n nk salmon are nsure that pin	Potential production nore e hk			t should supplem stence users.	ent pink salm	on	Fund. Pr	ce use, repla	nded to increase the	he availability of p and sockeye salm	
tribal level. means of va entail the hi	Resurrection Bay Salmon Stock Enhancement would enhance salmon resources and provide em By FY 98, the project should be self-supporting b lue-dded marketing to purchase salmon fry. The ring of a processor/marketer, the purchase of a sn fresh salmon to be smoked and dried.	ployment at t y providing a plan would	he Insufficie	\$45.0 entist's Com		\$0.0 aluate this propo	sal.		Do not fu goal appe	ears to be eco ay not be ap	needs additional i	information. Beca ent, not resource re ling under the term	storation, this
96244	Community-Based Harbor Seal Management and Biological Sampling	ADFG	ANHSC	\$70.0	\$128.5	\$128.5	\$100.0	\$85.0	\$0.0	\$313.5	3rd yr. 5 yr. project	\$128.5	
harbor seals conducting t knowledge, a subcontract	the project is to facilitate the involvement of subsi- in the restoration of this species through two wor- piological sampling, collection and application of and development of a traditional knowledge datab- with the Alaska Native Harbor Seal Commission g a meaningful role for subsistence hunters in res- ctivities.	kshops, traditional ase. A will contribut	of This is a	entist's Com well integrate		ically feasible pro	oject.		Fund. The workshop Subsisten collecting	s supported ce users will biological s	ill follow through through previous l be involved in has samples from subs	on recommendation Trustee Council p arbor seal restoration sistence-taken anin developed and dist	rojects. on through nals, and a

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96272	Chenega Chinook Release Program	ADFG	PWSAC	\$42.1	\$52.3	\$52.3	\$51.1	\$0.0	\$0.0	\$103.4	3rd yr. 4 yr. project	\$52.3	
be released salmon ret associated (1994 & 19 returning i	almon incubated and reared at the Wally Noerer I in Crab Bay, adjacent to the native community urning to the site of release will provide replace services injured by the oil spill. Two releases h 995) as part of this multi-year project. Adult sai n 1996 and 1997, with larger numbers projected returning in 1998 and thereafter.	of Chenega. Ad ment resources a ave taken place mon will begin	ill Excel ult supple nd Truste	ementation crite	Good match v eria. Good lo ling through a	with Trustee Cou cal involvement. at least FY 97, po	Suggest con		Fund three Review e resources	ffectiveness for subsiste	Il chinook salmor in fall of 1996. I ence salmon injur	n life cycle (at least Project will provide red by the oil spill. transition to non-T	replacement However, the
resource sp fishermen i eat. This p they can se	Resource Abnormalities Study istence users in the oil spill area have reported a becies. There has been a loss of confidence amo in their abilities to determine if their traditonal project would provide continued support for a pr and samples of abnormal resources to be examin ts and receive information back on the possible of s.	ng hunters and foods are safe to oject under which ed by biologists o	Fair p includ for AI admin	les training that	was originall appears to b excessive in l	\$0.0 by to be closed ou e slated for fundi light of anticipate ject.	ing in FY 96.		Do not fu	\$0.0 <u>Council Acti</u> nd. Contin will be prov		ion about the safety 052.	of subsistence
96428	Subsistence Restoration Planning and Implementation	ADFG	ADFG	\$48.8	\$48.8	\$0.0				\$0.0			.0
Restoration community communiti	et would fund the final reporting for the two-year Planning and Implementation Project. Report meetings to convey project results to the partic es and write up, revision, production and distribute Trustee Council.	ing includes ipating	ce FY 95 impor		of 2-year plan be done in co	ning effort. Issunt in the second s				Council Acti nd. Any fu		ning will be conduc	ted under 96052

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	gical Resources mmendation: The PAG supports the budget as	s proposed by sta	ff	\$3,737.9	\$3,879.0	\$500.7	\$195.0	\$195.0	\$135.0	\$1,025.7		\$500.7	
			<i></i>										
6007A	Archaeological Index Site Monitoring	ADNR	ADNR	\$146.5	\$141.6	\$141.6	\$135.0	\$145.0	\$135.0	\$556.6	2nd yr. 5 yr. project	\$141.6	
Abstract				Scientist's Corr						Council Act			
oiling will c spill. Oiled	of archaeological sites on public land injured l oncentrate on a sample of index sites in the th sites will be tested for re-introduced oil. The years if monitoring shows no continued injury.	ree regions of the 10-year project w	e in arcl		monitoring.	epresents the m There is a need		an be done	groups. sites inju	The project red by vand	provides continu	expand consultation ed monitoring of arc . The ten year proje tinued injury.	chaeological
						· · · · · · · · · · · · · · · · · · ·							
6007B	Site Specific Archaeological Restoration	USFS	USFS	\$78.4	\$78.4	\$78.4	\$0.0	\$0.0	\$0.0	\$78.4	3rd yr. 3 yr. project	\$78.4	
Abstract				Scientist's Com	ments				Trustee (Council Acti	on		
restoration a of projects 9 during previ prepared and	equested for the final phase of the Forest Serv. at sites SEW-440 and SEW-488. Project 9600 4007 and 95007B. Analysis and interpretation ous field work will result in a peer-reviewed find distributed according to Trustee Council pro- e restoration process initially prescribed for the	7B is a continuation of data gathered inal report, cedures. This will be the second se	ion reason 1 federa	able. Continue		unded project. ns with Native				oses out pre		ultation with Native vork to restore archa	
5149	Archaeological Site Stewardship	ADNR	ADNR	\$74.4	\$74.4	\$74.4	\$60.0	\$50.0	\$0.0	\$184.4	lst yr.	\$74.4	ú.
Abstract			Chief	Scientist's Com	monto				Transford		3 yr. project		
The archaeol coordination sites in the o site stewards Bay and the	logical site stewardship program will provide for a cadre of volunteers to monitor vandalize il spill area beyond the ability of agency moni- will protect damaged sites in Kachemak Bay, Chignik area of the Alaska Peninsula. Furthe increased local awareness of harm from site van	ed archaeological toring. Voluntee , Uganik Bay, Uyar protection will	The co model		rably reviewe	d. This project al residents.	could serve as	a useful	Fund. The to monitor effort is c	or vandalize	ill provide training d archaeological ond the ability o	ng and coordination sites in the oil spill f agency monitoring plunteer stewards or	area. This 3. After FY 98,

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• Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96150	Expansion of Alutiiq Archaeological Repository	ADNR A	Alutiiq HF	\$535.0	\$535.0	\$0.0				\$0.0			
museums, b prohibitive. is designed t existing faci Selected artifications of the facilities of the fa	nunities within the EVOS area have expressed in ut the cost of constructing such facilities in all t The new Alutiiq Museum and Archaeological to hold collections from the Kodiak area, sugges lities to hold collections from the remainder of facts would be displayed in other spill commun display areas could exist without the necessity o l plant needed for large collections.	hese locations is Repository, which sts expanding its the oil spill area. ities, where	Needs t expansi	cientist's Con o be consider on of this fac	ed in regional	context before	there is justifi	cation for	Do not fu	Council Action and at this time fort in Pro	me. Proposal sl	hould be addressed th	arough the
06152	Community Museum, Repository, Archaeological, Site Stewardship, Co-Management Training & Human Resource Development Project	DOI Ch	ugach OSIR	\$190.3	\$190.3	\$0.0				\$0.0		·	
residents or community or restoration,	would provide training and career development 2-3 participants from each Chugach Oil Spill In engaged in the development of a cultural center site stewardship, and/or resource co-management	npacted Region , or a subsistence nt facility, or	This pro work, h who wil addresse	ow the goals 1 do the train ed in another	lear technical will be accom ing. This cou proposal. It i	details relating plished, and the ld be considered s also not clear	e qualification d if these poin where the rese	s of those ts are	Do not fu	Council Action nd until sign is completed	 ificant question	ns are answered and	comprehensive
	cal service enterprise. Provision for training per to local contracting assumption under P.L. 638 lations.		sustaine	a support of i	me suggested	facilities will co	ome from.						\bigcirc
06153	Community Cultural Centers, Repositories and Subsistence Restoration Facilities - Comprehensive Design, Engineering, Financing, and Construction Development Project	ADEC Ch	ugach OSIR	\$2,588.3	\$2,588.3	\$0.0				\$0.0			
approach to community a facilities, sca considered fi long-term re	would provide a consolidated, coordinated and the progressive development, financing, and co and region-wide service facilities. Completed co aled to the local needs and capacity of each com undamental to achieving and maintaining the re- storation of injured resources, subsistence serving r local and regional repository and site stewards	nstruction of loca onstruction of suc munity, is egion-wide ces, and assuring	This pro the restor h assessm plan in must be	oration progra ent, there may the future. A	ot outline the a m. With an a y be reason to	needs of each co adequate "scopi proceed wih pa nance costs of ro sals.	ng/project" fea articular aspec	sibility ts of the	Do not fu	council Actic nd until sign is completed	nificant question	ns are answered and	comprehensive

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96154	Comprehensive Community Plan for Restoration of Archaeological Resources in PWS and Lower Cook Inlet	USFS	Chugach HF	\$125.0	\$271.0	\$206.3				\$206.3	1st yr. 1 yr. project	\$206.3	
provision an Chugach Oi of a cultural to facilitate technical set developmen	would provide coordinated and cost-effective app ad delivery of technical assistance planning service 1 Spill Impacted Region communities engaged in center or subsistence restoration facility. The pro- a region-wide effort, coordinate and provide for the rvice elements associated with and essential to the t of community cultural centers or subsistence res- endant long-term programs.	the development of the developme	A well f the archaec nent display med	ological resour	i complete pro	oposal for local p by the spill, cond a. I recommend	centrating on s		Fund. P	Council Act roject descri ity planning	ption has been rev	rised to reflect a co	omprehensive
96219	Ouzinkie Archeological Culture Center Project	ADEC	Ouzinkie Tribe			\$0.0				\$0.0			
and the asso erosion or th cultural reso provide an o mini-confere	ie Archeological Culture Center will preserve and ciated data that would otherwise be lost to vandal uat have been recovered from looters and will pres urces and traditional Native culture. This facility pportunity for neighboring communities to partic ences focusing on issues such as archeological his <i>Exxon Valdez</i> oil spill on declining subsistence r tive culture.	s, looters an erve local will also ipate in tory and the	facts This pr d coordin Center.	ated with reg	an Ouzinkie	Cultural Center rts and with the						linated with the ex	cisting Alutiiq

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r Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
Reducing	Marine Pollution			\$164.6	\$163.3	\$28.3				\$28.3		\$28.3	
PAG Reco	mmendation: Approve this cluster for funding a	s recommende	d by the Executiv	ve Director.									
96091	Monitoring for Current and Potential Environmental Impacts of Oil Industry Activities in Cook Inlet	ADEC	Cook Inl RCAC	\$135.0	\$135.0	\$0.0				\$0.0			\bigcirc
Monitoring environmer Goals of the data; 2) eva sediments;	sal requests assistance in funding the Cook Inlet Study. For two years, Cook Inlet RCAC has deviated ntal research budget as sole supporter of this critic e program are: 1) establishing baseline hydrocart pluating potential hydrocarbon accumulation in C and 3) evaluating potential environmental impact and transportation in the Inlet.	voted its entire cal program. oon and biolog cook Inlet	l Link to monitor Focus is fical reducin	ring sites are i	k; no work ir n spill zone. g environmen	areas that were Insufficient deta tal baseline data	ail for full eva	luation.	Do not fu funds. It related to	t would more recovery fi	ion sal is not appropria nitor existing indus rom EVOS, and pr llowable under the	strial activity, only epare for future ac	peripherally
96115	Sound Waste Management Plan	ADEC	PWS Econ DC	\$29.6	\$28.3	\$28.3				\$28.3	2nd yr. 2 yr. project	\$28.3	
remove the may be affe Valdez Oil	Waste Management Plan is a comprehensive pla major sources of marine pollution and solid wast cting recovery of resources and services injured b Spill. This request completes the first phase p	te in PWS that by the Exxon lanning begur	nd Prior we t 1996. I those lin	n theory, this	to fruition i project could	if these final fun speed recovery re funding reque	of injured spe	cies but	Fund. Pr to determ	une appropr	ion letes comprehensiv riate strategies for be affecting recove	minimizing marin	e pollution / - \

FY 95. The following phases of the plan will be to implement these solutions using funds from a variety of sources, possibly including the Trustee Council.

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
Habitat Imp PAG Record operators to	provements nmendation: Regarding 96058, actively seek o obtain needed data. Regarding 96176, do n	landowner partic ot fund. Regardii	ipation. If nor 1g 96180, staj	\$1,077.1 ne forthcoming ff should exam	\$963.3 look at reduc ine expectatio	\$766.5 sing this projectons of this project	\$800.0 Regarding ct relative to c	\$600.0 96141, do no other organiz	ot fund. Sta) \$2,166.5 Ite manager rts on the K	s should work with	\$560.6 h other public and	\$205.9 private
96058	Landowner Assistance Project	USFS	USFS	\$205.9	\$205.9	\$205.9	\$0.0	\$0.0	\$0.0	\$205.9	2nd yr. 2 yr. project		\$205.9
assistance an habitat durin landowners sensitivities will attempt	in the oil spill area have expressed an interest and advice on how to do a better job of protectin and development activities. Impacts of and development contractors lack an awareness during pre-project planning. The project, on a to make development and restoration objective e activities do not impede natural recovery.	g and/or enhancin ten occur because s of resource n as needed basis	The contract of the contract o	ize further imp ore informatio	ling assistanc acts on spill- in about the re impression is	e to private land injured resource esults of current that the initial n c.	s is good. Ho ('95) efforts a	wever, I nd what is	Defer dec	ntinue effor	consideration of re t begun in FY 95	esults of FY 95 eff to assist private lar elopment activities	downers in
96141	Afognak Island State Park - Habitat Restoration Survey	ADNR	ADNR	\$45.0	\$45.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	lst yr. 1 yr. project		
areas and ald established i the Trustee (survey that v 1200 acres th (e.g., tree pla	e of this project is to recommend ways to restor ong logging roads in Afognak Island State Parl n 1994 on land (Seal Bay and Tonki Cape parc Council. A private contractor would conduct a would document the density of seedlings that has hat have been logged, and recommend ways to anting or thinning). The contractor would also ways to improve habitat along the 12 miles of ark.	c. The park was bels) purchased by regeneration ave returned to the improve habitat recommend	d This is account the nee have no e manage	t previous peer ded restoration o guarantee that	ound proposa review comm actions may at in the year 2	l, which appear nents. My only not take place f 2020 someone r State Park will	concern is that or 25 years, an esponsible for	nt most of and we making	Do not fu	Council Acti nd because or funding.		by the PAG and o	thers. Not a

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r Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96176	Restoration of Essential Wetland Habitat at San Juan Bay on Montague Island	USFS	USFS	\$67.5	\$67.5	\$0.0				\$0.0	lst yr. 6 yr project		
anadromous project feasi and enginee findings wa project is im Juan Bay on wetland con	the potential to create wetland habitats used by wa fish impacted by the oil spill. Study in FY 96 wi bility from hydrologic, soils, geomorphology, fish ring perspectives. Detailed project plan will be de trant. Environmental analysis will be conducted i plemented, succession will be reversed in the upli Montague Island. Flooding of the uplifted area v uponent. Pools/ponds will be created in riparian a ore associated aquatic vegetation.	ll determine eries, wildlife eveloped if n FY 97. If fted lake at S vill maintain	This is Island t propose specific the link an degree the wetland	hat were alter d as a replace injured speci to injury, as of manipulation	andy to restore ed by the 196 ment for wet es is not clear well as more	e freshwater weth 4 earthquake. A lands injured by r. I need addition information about night be required	Although this p the oil spill, t nal justification at what methor	project is he link to on about ods,	Do not fu	species inj	litional informatio	n was provided lin nd many technical	king this questions are
96178	Second Growth Forest Habitat Enhancement for Injured Wildlife Species	USFS	USFS	\$84.3	\$84.3	\$0.0				\$0.0			
timber harve understandin project has t harlequin du forest stand succession. marbled mu	ea has several watersheds on National Forest Syst est occurred in the early 1970s. These were done ing of optimum stand structure for wildlife popula he potential to improve habitat for river otter, man ick and bald eagle by accelerating succession and structure beneficial to wildlife species faster than Habitat for old-growth dependent species such as trelet, harlequin duck, and bald eagle, whose popu damaged by the 1989 oil spill, can be improved w	without an tions. This bled murrele developing natural forest river otter, lations were	t, pre-com ducks, r reference recomm	eristics in rela ented a persu mercial thinn narbled murre	o have a good tion to forest asive case that ing will dem elets, and balo ern deer. The	l understanding of types and manag tt enhancing fore onstrably benefit i eagles. Most o think to restoration	gement, but the est growth three river otters, l f the technical	ough harlequin l		<u>Council Acti</u> nd. Link to	on estoration is wea	ık.	\bigcirc

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Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
96180	Kenai Habitat Restoration & Recreation Enhancement Project	ADNR	ADNR	\$674.4	\$560.6	\$560.6	\$800.0	\$600.0	\$0.0	\$1,960.6	lst yr. 3 yr. project	\$560.6	

Abstract

Adverse impacts to the banks of the Kenai River total approximately 19 miles of the river's 166 mile shoreline. Included in this total are 5.4 river miles of degraded shoreline on public land. Riparian habitats have been impacted by trampling, vegetation loss and structural development. This riparian zone provides important habitat for pink salmon, sockeye salmon and Dolly Varden, species injured by the *Exxon Valdez* oil spill. The project's objectives are to restore injured fish habitat, protect fish and wildlife habitat, enhance and direct recreation and preserve the values and biophysical functions that the riparian habitat contributes to the watershed.

Chief Scientist's Comments

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This is a well presented proposal, and the supplementary information provided helps to clarify the relationship to work that is being carried out with funds provided from the *Excon Valdez* criminal settlement and other sources. This is a strong project aimed at the direct restoration of habitats that are important to the recovery of sockeye and other fish species of commercial and recreational importance.

Trustee Council Action

Fund. This project will aid restoration of habitat for the benefit of sockeye salmon and other fish species of commercial and recreational importance. Some questions remain about specific use of Trustee funds relative to other sources of state and federal support. Further information will be provided prior to 8/25/95.

Information	n Support			\$0.0	\$0.0	-
96155	Prince William Sound Information Service	ADNR F	airweather	\$0.0	\$0.0	
Abstract			Chief Scientist's Con	iments	Trustee Council Action	
accept, proc environmen access for m	ed Fairweather integrated information system is designess and store scientific and other information from statl data collection programs from PWS and then allo nanipulation and display of the data. Basic information	tudies and ow easy on from	Chief Scientist did no	ot review proposal.	Do not fund. Proposal duplicates work ongoing under 96100 b under 95089.	egun
computer di	s will be converted to a common data format and stor sk accessible to all researchers, government officials arties. Users would have a variety of access and disp	and other				

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EV 06 WORK PL	N TRUSTEE COUNCIL 8/25/95 ACTION	
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• <u>FY 96 WO</u>	RK PLAN TRUSTEE COUNCIL	8/25/95 AC	CTION		٩	(پ			-			<u>9/1/95 DRAFT/</u>	<u>PAGE 52</u>
r Proj. No.	Title	Lead Agency	Proposer	FY 96 Request	FY 96 Revised Request	FY 96 Total Approved/ Deferred	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	Project Duration	Approved 8/25/95	Deferred Decision to December
Research Facili	ties		•	\$3,000.0	\$3,000.0	\$0.0				\$0.0			
	· · · · · · · · · · · · · · · · · · ·	· · · · ·							* 400. 2 ⁶				
	expansion of the Prince William Sound cience Center/Oil Spill Recovery Institute	NOAA	NOAA	\$3,000.0	\$3,000.0	\$0.0				\$0.0			· · · -
Abstract			Chief	Scientist's Com	ments				Trustee (Council Acti	on		
This project add important to the overcrowded res monitoring of oc interrelationship laboratories will	resses the need for basic marine research infr long-term restoration effort in PWS. It will earch facilities and provide new capacity for cean processes, marine plankton and nekton, by between physics and the biology of the regi emphasize remote sampling (underwater accommunication, visualization and numerical mo	expand current research and and ion. The pustics and	ntly	Scientist did no	ot review prop	oosal.				ind. Proposa rnate fundin		e. Planning money alı	ready obtained

Summary of Trustee Council Action, 8/25/95 FY 96 Work Plan

Draft

Recommendation: Approve and Defer Revised FY 96 FY 99 to FY 96 to Approved Approved **Resource/Service Cluster** in FY 95 FY 96 FY 97 **FY 98** End End 8/25/95 Request Defer Pink Salmon \$2,543.5 \$2,056.8 \$11,183.2 \$1,284.6 \$1,957.7 \$3,469.6 \$3,242.3 \$3,325.3 \$2,558.8 Herring \$1,432.2 \$2,103.5 \$787.1 \$645.1 \$1,432.2 \$1.154.9 \$1,013.5 \$1,169.2 \$4,769.8 Sound Ecosystem Assessment (SEA) \$10,725.7 \$4,612.8 \$5,154.8 \$4,525.7 \$3,600.0 \$2,600.0 \$4,525.7 \$0.0 SEA Program -- Related Projects \$0.0 \$375.2 \$85.0 \$170.0 \$467.7 \$0.0 \$112.7 \$112.7 \$85.0 Sockeye Salmon Program \$1,569.7 \$2,198.0 \$1,765.3 \$427.0 \$75.0 \$150.0 \$2,417.3 \$771.0 \$994.3 Cutthroat and Dolly Varden Trout \$134.8 \$428.4 \$240.4 \$227.7 \$127.7 \$26.4 \$622.2 \$200.0 \$40.4 Marine Mammal Program \$913.2 \$1,099.5 \$819.0 \$687.3 \$275.1 \$25.0 \$1,809.4 \$792.6 \$26.4 Nearshore Ecosystem \$3,112.4 \$6,426.0 \$9,816.4 \$1,013.2 \$3,596.6 \$2,470.4 \$2,459.4 \$1,340.0 \$2,583.4 Seabird/Forage Fish Ecoystem Pict \$1,262.9 \$1,982.6 \$250.7 \$1,731.9 \$1,982.6 \$1,964.0 \$1,964.0 \$2,200.0 \$8,110.6 Seabird/Forage Fish -- Related \$507.6 \$617.9 \$1,419.2 \$795.6 \$321.6 \$103.9 \$458.5 \$1,664.6 \$288.0 Subsistence \$2,594.0 \$878.4 \$1.006.9 \$686.2 \$1,564.6 \$1,404.3 \$1,108.8 \$1,594.8 \$5,672.5 Archaeological Resources \$457.7 \$3,880.3 \$500.7 \$195.0 \$195.0 \$135.0 \$1,024.4 \$500.7 \$0.0 Reducing Marine Pollution \$516.7 \$163.3 \$28.3 \$28.3 \$0.0 \$28.3 Habitat Improvements \$286.6 \$963.3 \$766.5 \$800.0 \$0.0 \$2,166.5 \$560.6 \$205.9 \$600.0 Information Support \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 Research Facilities \$0.0 \$3,000.0 \$0.0 \$0.0 \$0.0 \$0.0 Total: Monitoring, Research, and \$60,478.6 \$19,138.6 \$34,586.4 \$21,372.5 \$16,662.5 \$9,325.7 \$7,701.8 \$13,166.2 \$13,670.7 General Restoration Public Information, Science \$4,208.9 \$3,439.6 \$3,439.6 \$3.200.0 Management, and Administration \$2,800.0 \$7,200.0 16.625.1 \$3,439.6 \$0.0 Habitat Protection/Acquisition Support \$1,111.8 \$1,193.0 \$1,193.0 \$170.0 \$115.0 \$115.0 \$1,241.8 \$1,193.0 \$0.0 Restoration Reserve \$12,000.0 \$12,000.0 \$12,000.0 \$12,000.0 \$12,000.0 \$84,000.0 \$0.0 \$12,000.0 \$12,000.0 \$51,219.0 \$28,640.7 \$36,459.3 \$7,701.8 \$38,005.1 \$32,032.5 \$28,081.2 \$145,720,4 \$30,303.3 -12) Total, All Activities

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